Enraf-Nonius International
Vareseweg 127
3047 AT Rotterdam
P.O. Box 12080
3004 GB Rotterdam
The Netherlands
Tel.: +31-(0)10 - 203 06 00
Fax: +31-(0)10 - 203 06 99
E-mail: info@enraf-nonius.nl
Website: www.enraf-nonius.com

PASSION FOR MOTION

Your distributor:

Units 22-24
60-66 Richmond Road,
Keswick 5035, South Australia
Telephone: 8351 1455
Facsmile:8293 7377
Email: CustomerService@implox.com
www.implox.com

Technical modifications reserved

PASSION FOR MOTION - ELECTROTHERAPY

4411115 - EN - 11/08

PASSION FOR MOTION

ELECTROTHERAPY

ENRAF-NONIUS

Contents

Enraf-Nonius - A story of success....2

The 6-series: effective treatment freedom 8
6-Series characteristics 10
Total adaptability of the Enraf-Nonius 6-series equipment 12

Combination, Ultrasound, Electrotherapy
Sonopuls 692....14
Sonopuls 692V S....16
Sonopuls 492....18
Sonopuls 491....20

Ultrasound therapy
Sonopuls 490....22
Sonopuls 190....24

Electrotherapy
Endomed 684V....26
Endomed 682V....28
Endomed 482....30
Endomed 182....32
Vacotron S....34
Vacotron 460....35

Electrotherapy - TENS
EN-Stim 4....36
TensMed S84....37
TensMed S82 & P82....37

Biofeedback therapy
Myomed 632V....38
Myomed 134....40

Laser therapy
EndoLaser 422....44

EN-Car U
EN-Car U....46

Traction therapy
Eltrac 471....48

Presso therapy
EndoPress 442....50

Shortwave and microwave therapy
Curapuls 670....52
Curapuls 970....54
Radarmed 650+....56
Radarmed 950+....57
Circuplode & Flexiplode....58
Furniture for short and microwave therapy....59

Thermo therapy
Fangoheater & Paraffin-bath....60
Packheater, Enno Moist & Hot/Coldpacks....61
Packheaters....62
Chilling units & Packs....63

Miscellaneous
Infrared Radiators & Monark 970 Cycle....64
Quadriceps Bench & Other exercise materials....65
Small practice materials....66

EN-Cardio
EN-Motion treadmill....68
EN-Mill treadmill....70

Explanation of the symbols....72

ENRAF NONIUS
Partner for Life

ENRAF-NONIUS
A story of success

The company history

More than 80 years ago, in 1925, the First Dutch Röntgen Device Factory (ENRAF) in Rijswijk started developing equipment for röntgen applications and diathermy. The production facility was later moved to the city of Delft, known not only for its world-famous Delft Blue porcelain, but also for its university, which for centuries has produced the country's top engineers and where research has always been a core activity. In 1948 the instrument maker firm Nonius was set up by the founder of Enraf. The company specialised in precision measuring instruments. Enraf, meanwhile, had not stood still, and had started making a name for itself in electro surgery, with, for example, the Curatis.

With participation in Enraf by the English company Evershed & Vignoles (it is by now 1955), the rights to the manufacturing and sale of a very advanced range of electronic measuring and control equipment were acquired. 1965 was an important year, which saw the merger of Enraf and Nonius into Enraf-Nonius and the coming into force of the Dutch Physiotherapists Decree. Physiotherapists, masseurs and specialists were awarded the official status of paramedics, a development that also took place in surrounding countries.

The wide product range of Enraf-Nonius was at that time geared to precision and came to include industrial measuring and control equipment and medical applications. A conspicuous product at that time was the Curamed 401, the first safe and reliable diathermy device for treatment of the locomotor apparatus. During the active seventies, various acquisitions took place and our production site in Brunssum was opened.

Enraf-Nonius was a leading specialist in its field, active in three high technology areas: industrial measuring equipment, röntgen diffraction and medical equipment. The Sonopuls 407 and 417, the Endomed 415 and 422, the Dynapuls 417, 421 and 424 and the Curapuls 418 were developed during this time and became known worldwide.

The Manulekt treatment couches completed the practical product range. The couches were a welcome addition for therapists and eagerly snapped up. After a period of internationalisation and expansion during the nineties, Enraf-Nonius has since 2000 concentrated on the market for physiotherapy and rehabilitation equipment. Enraf-Nonius kept in step with a world in motion and developed into the leading specialist in the field of kinesitherapy. An international network of highly trained, reliable product experts make our products available to motion specialists around the globe.
Functionality, reliability and durability are concepts that were associated with Enraf-Nonius products then as they are now. The latest production techniques, workmanship and the company's continuing interest to optimise its products through customer feedback, confirm the company's image of "passion for motion", in which the human being has a central position and is a true *partner for life*.

EN-Projects, a subsidiary of Enraf-Nonius, contributes to the international success and reputation of the company. EN-Projects specialises in Turn Key Medical Equipment and realises large-scale global projects in hospitals and rehabilitation centres. With many years' experience and proven reliability, EN-Projects is a valued partner for international ministries, health and other government bodies. EN-Projects have been realised in Europe, Latin America, Asia and the Middle East, and with its current large-scale schemes EN-Projects is providing an ongoing contribution to the development of physiotherapy in less developed countries.

Our product catalogues are divided into three sections:

Technical physiotherapy equipment
This is characterised by a selection of unsurpassed, contemporary, high technology physiotherapy equipment. A wide assortment of electro and ultrasound therapy, electro stimulation, vacuum therapy, biofeedback, shortwave and microwave therapy, thermotherapy and traction. Special attention has been paid to our new products in the Technical Physiotherapy section. Equipment for top performance and quality!

Active rehabilitation and medical fitness
This section provides a complete overview of our products for active and functional rehabilitation and medical fitness products.

The treatment couches
The Manumed treatment couches form a comprehensive range of specialist couches with ultimate stability, easy adjustability and total comfort. Couches that can be adapted for every personal requirement. The Manumed treatment couch is used in practices, hospitals and healthcare centres worldwide. We also have a newcomer in our range, the result of advanced technology combined with user feedback and the expertise of our developers to meet this need. An extremely attractive, safe and stable standard couch that will appeal to everyone. It projects strength, safety and functionality, and comes at an attractive price. The couch that completes the famous Enraf-Nonius treatment couch collection.

Products that show that we have blended quality, functionality and design into a whole. Equipment designed with the utmost care, meeting the most stringent requirements of the MDD (Medical Devices Directory). Motion specialists, Olympic athletes, impaired patients, the young, the pregnant, top football clubs and many other users have been convinced of the functionality, quality and reliability of this equipment. We also have something new for you in this section: the EN-Motion, a physio treadmill fitted with the latest techno gadgets and unique options.

With our extensive knowledge, customer-orientation and continuous urge to adapt our products to today's customers, using the latest technological developments, Enraf-Nonius also professionally advises on the setup of your exercise area. Our experts will be pleased to offer advice and guidance in creating a contemporary, functional, stylishly designed exercise area using our quality equipment. Enraf-Nonius has always been characterised as a market leader in the world of physiotherapy, with its unprecedented quality equipment. The basis for our unparalleled success formula was established in the past: the coming together of expertise, the delivery of quality and customer-orientation. Enraf-Nonius will continue to work with you, to help improve the quality of life of all people. In Rotterdam we do this within R&D, national and international sales and marketing, technical service, the administrative department and EN-Projects. Our logistics team does this every day in Brunssum.

Enraf-Nonius:

"Partner for Life"
with a
"Passion for Motion"

Endomed TensMed **EndoPress**
EndoLaser **Sonopuls**
Myomed **EN-Stim** **Curapuls** **Radarmed**
Circuplode **Eltrac** Vacotron

ENRAF NONIUS

Partner for Life

With products for röntgen applications and equipment for diathermy, Enraf-Nonius's roots are in the important field of physiotechnology. Shortwave devices for physiotherapy have been manufactured since the company's founding in 1925. Experience gained over many years, workmanship and the connection with the University of Delft have all contributed to the success of Enraf-Nonius's technological physiotherapy products.
Physical therapy is the combined action of therapies using light, air, water, electricity, heat, cold and waves of various forms and composition, as well as biological and mechanical effects resulting from various physical stimuli. Enraf-Nonius grew during a period when concepts such as physiotherapy technology and rehabilitation were first introduced, enabling the development of equipment and systems. At that time (during the mid-fifties) Enraf-Nonius already had equipment such as Elther UED/UE/GFPZ and the Curatis.

High, low and medium frequency devices, equipment for ultrasound, ultraviolet and laser therapy, massage, traction and suspension, exercise and measurement equipment, as well as examination and thermo-devices for hydrotherapy and kinesitherapy. All these devices have continued to be developed further and are sold worldwide. Sonopuls, Endomed, Curapuls and Myomed, each of them concepts in their own right in the world of technological physiotherapy. Technological advances have enabled Enraf-Nonius to increase the efficiency and effectiveness of its existing therapies and equipment even further. Whether it concerns a shorter treatment time, a more precise physical stimulation of the tissue response, or easier operation, Enraf-Nonius products for physical therapy continue to stand out with their state-of-the-art technology. Technology makes the impossible possible: a sensational innovation from Enraf-Nonius has got the physioworld sitting up, with the 6-series treatment units for ultrasound electrotherapy and combination therapy. This unique innovation from Enraf-Nonius makes practice work a lot more pleasant and efficient and helps to further increase the intensity (and the effect) of the treatment. The smooth, contemporary design of the housing makes the device a pleasant addition to any practice.

Enraf-Nonius products are designed under the most stringent requirements for use and safety. Awareness of quality at Enraf-Nonius is extremely high, and its products are consequently sold worldwide. Despite worldwide differences in circumstances, Enraf-Nonius products always deliver the same reliable output. Quality that is visible in durability and reliability, year after year. The future will continue to bring more remarkable products. We hope that our equipment will continue to surprise you with its functionality and design. Our R&D experts are constantly striving to create advanced technological equipment for you and the world of physiotherapy, products that meet the highest quality requirements and the strictest safety standards.

Enraf-Nonius has been at the top of its field
of technological **physiotherapy equipment**
for many decades, and from this background,
as well as from our **passion** for technology and motion,
we look forward to continuing to supply you with
state-of-the-art products for
technological physiotherapy treatment methods.

The 6-series: effective treatment freedom

Technology makes the impossible possible: a sensational innovation from Enraf-Nonius has got the physioworld sitting up with the 6-series treatment units for ultra and/or electrotherapy and combination therapy.
This unique innovation from Enraf-Nonius makes practice work a great deal more pleasant and efficient, and helps to further increase the intensity (and the effect) of the treatment.
The smooth, contemporary design of the housing makes the device a pleasant addition to any practice.

The 6-series offers 1, 2 or 4-channel electrotherapy, diagnostic and ultrasound therapy, if required in combination with an integrated vacuum unit. A further option with this product series is biofeedback, with or without electrotherapy. The new stationary ultrasound unit is extremely user-friendly.

The 6-series is a particularly efficient therapy assistant, a treatment aid that will become indispensable in any practice. The unit has an ultra-modern, functional design, is easy to operate and is reliable. The 6-series is the result of 80 years of know-how, experience and innovation in physiotherapy.
The 6-series provides instant access to all the relevant treatment protocols. A separate protocol can be created and saved for each client. At the next treatment, the client's details are instantly accessible.

The functions can be controlled with one hand, including information about the most effective positioning of the electrodes or the required therapy. The information is clearly displayed on the LCD colour screen, which can be optimally adjusted to the lighting conditions. The clear contrast comes into its own in particular in the differentiation between parts, for instance in an anatomical diagram.

As a physiotherapist you know the importance of physical contact with your client. If you constantly have to switch your attention from the device to your client, this contact is broken, adversely affecting the intensity (and therefore the effect) of the treatment. The intuitive operation of the 6-series allows you to work more comfortably and give your full attention to your client. The result is optimal efficiency at every consultation.

The new 6-series has a flexible housing with a modern, sleek design. The device is future-proof, with a number of free slots for new therapy module insertion cards. With this flexible design you can build up the device around your needs. With the Enraf-Nonius 6-series you will always be up-to-date and assured of many years of comfortable operation.

The Sonopuls 692 (a complete device for ultrasound, combination and electrotherapy) forms part of the 6-series, such as the Endomed 682/684 (a 2/4 channel device for electrotherapy and diagnostics). These devices can be expanded with a vacuum unit, which makes fitting electrodes particularly easy and comfortable. The Myomed 632 is the most recent addition to the range and further completes the series, offering you even greater comfort. Combined with electrotherapy, this device for EMG feedback can deliver fast, functional recovery from many conditions.

The stylish 6-series offers the ultimate treatment freedom. Not only are you free to give your clients the attention they deserve, but also to select precisely the therapy you need, now and in the future.

Characteristics 6-series

1 16 types of current - 36 applications
The devices in the Enraf-Nonius 6-series have 16 types of current that can be used in 36 therapeutic applications. The devices in the 6-series give you all the low, medium and high-frequency currents, including TENS and high voltage. The 6-series also has eight different interference forms: the classic bipolar and tetrapolar interference, but also isoplanary, dipole vector and manual, with many variables in operating time.

2 Flexibility for the future
The new 6-series is built into a flexible cabinet. With an eye to future developments, there are free slots for other therapy module insertion cards (just as in your PC). With the Enraf-Nonius 6-series equipment you will therefore always be up-to-date.

3 Upgradable
The 6-series products are fully software controlled. With the aid of a simple SD card (like the one in a digital camera) you can adapt and upgrade your equipment. This means that the 6-series will always keep up-to-date with the latest innovations and therapy options.

4 Ready for the protocols card
The 6-series equipment is ready for the protocols card, which will allow you to enter specific protocols in the future in a straightforward way. These can be both specific to the region and fully individualised protocols.

5 Triple safety
Enraf-Nonius equipment has a triple safety concept. If the primary control system fails, an independent secondary system ensures that adequate action is taken (depending on the operating mode at the time). In the unlikely event that both the primary and secondary systems fail at the same time, there is a third, back-up system. The equipment therefore has an exceptionally high safety level.

6 Unambiguous connection options
The connection options for electrodes, the remote control and other cabling are clear and straightforward. There are no inconvenient plugs or adaptors, just robust terminal boxes with clear descriptions in the shape of coloured rings and form.

7 All help within reach
The Help button provides all the answers you need within easy reach. No matter what your question or where you are in the menu, one push of the Help button will take you to the Help menu. This operation is handy, efficient and safe, which means peace of mind for you.

8 Reflex Control system
If the area to be treated absorbs ultrasound, the intensity is automatically adapted. More absorption means a higher intensity, less absorption a lower one. As this absorption is measured in the treatment head, the effect of reflection of ultrasound is included in this control, so that there is never any danger of overdosing.

9 Global service network
Enraf-Nonius has a worldwide network of authorised dealers and service agents. These service centres can check and calibrate your Sonopuls with specially developed Enraf-Nonius service equipment. With the high standards required of ultrasound equipment, you will always be assured of a reliable unit that meets all the legal requirements as well as your own.

10 Multiple choice of therapies
Extensive options for mono-applications of electrotherapy (through two independent channels or through linked channels), ultrasound therapy or combination applications of both, so that a wide variety of conditions can be treated effectively.

11 Ergonomic design
Apart from the ergonomic treatment button, the whole device is fitted with ergonomic features. The 6-series has a soft-touch support. The central control button also has a soft-touch layer, as well as a turning mechanism of the highest quality. The display is fully adjustable to obtain the ideal viewing angle. The whole design is intended for right and left-handed users.

12 Ergonomic treatment head
The ergonomic shape of the head means that it is easy to hold, so that you do not become tired during treatment. The head and the hand have to form a whole and the ingenious design allows you to achieve this in both the lower, the upper and the pinch hold.

13 Self-centering head holder with auto-lock
The Sonopuls head holder is self-centering and fitted with an auto-lock mechanism. Thanks to this mechanism you will never again experience the treatment head falling out because it was not fully positioned in the holder. When you place the head in the holder it will always fall effortlessly into the correct position.

14 Multi-client applications
The 6-series allows three clients to be treated at the same time with the same machine. The completely galvanised division between the various components makes this a safe procedure. The menu-controlled interface provides a clear view of each client. (Please note: Multi-client use of the device is not permitted in all countries).

15 Multi-frequency treatment head
With this you can treat with 1 or 3 MHz without the need to change the head.

16 Effective treatment surface area
The ERA (Effective Radiating Area, in cm^2) is the effective radiating area of the treatment head. The ERA determines the relationship between the total delivered capacity (in watts) and the delivered intensity (in watts/ cm^2). As both the delivered capacity and the ERA are precisely determined with Enraf-Nonius treatment heads, the delivered intensity is therefore also precisely known. With the Sonopuls equipment this delivered intensity is displayed on the screen. The heads have an ERA that practically corresponds with the visible surface of the contact area. With this unique control technology, the Sonopuls can supply an effective bundle of 5 cm^2, so that you know exactly what dose you are supplying.

17 Crystal-clear and scratch-resistant LCD display
The crystal-clear display provides you with all the information you need. With its scratch-resistant covering, the display will continue to provide crystal-clear images even after many years of use in a busy practice.

18 Integrated intuitive mains connector
Wherever you are in the world, you can always connect the 6-series without problems thanks to the intuitive mains connector. Whether you are working with a mains voltage of 110 V/50 Hz or 230 V/60 Hz, it makes no difference to the 6-series. You do not need to use external transformers or other mains adaptors, as everything is integrated in the Endomed 682(V) and the Sonopuls 692(V).

19 Ultra-flat and silent vacuum unit
The vacuum unit of the 6-series is the thinnest of its type, at only 5 cm in height, which means that it looks good and does not take up much space. The unit is virtually silent, which further increases the comfort factor.

20 Water overflow detection signal
The vacuum units are fitted with a water overflow detection signal. The sponge electrodes are moist and the vacuum unit will suck up this moisture. The moisture is collected in a reservoir and you will automatically be alerted when the reservoir needs to be emptied. Your equipment is therefore available at all times and internal damage through moisture is avoided.

Total adaptability of the Enraf-Nonius 6-series equipment

Enraf-Nonius is proud to present the complete, modular 6-series machine. You can configure your Endomed, Sonopuls or Myomed exactly the way you want.
Even better, you can upgrade your existing device. This means that you can start with a relatively simple device and upgrade it later with added functionality. This allows you to spread your investment over time, while you still have the device that meets the needs of your practice, now and in the future!

Is it an **Endomed?**
Is it a **Sonopuls?**
Is it a **Vacotron?**
Is it a **Myomed?**

It's **whatever you want it to be!**

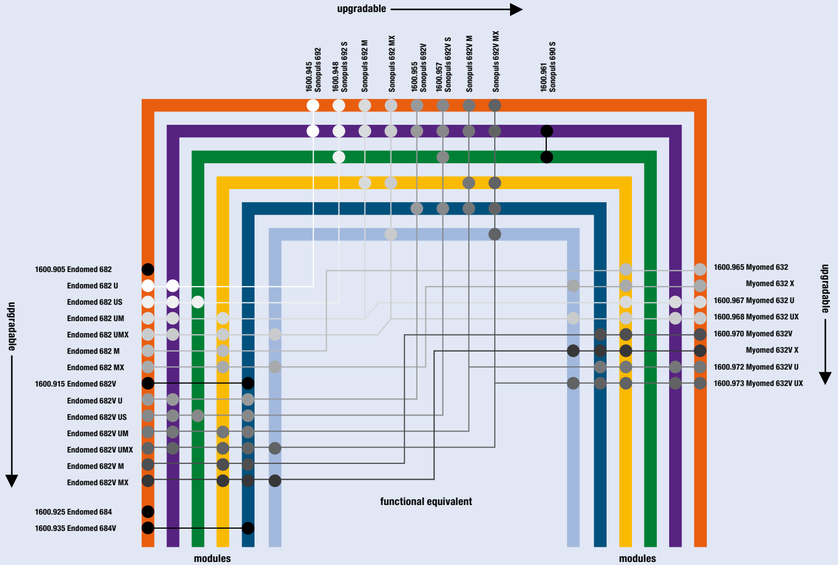
Just as with your PC, you can now change the functionality of your device by adding modules. You can start, for instance, with a two-channel electrotherapy machine (the Endomed 682) and later add the Sonopuls module. Or, if you have a Sonopuls, you can extend it with biofeedback functionality.

Six available functionalities
There are at present eight modules with six functionalities available for your 6-series devices, namely:

- A current module. With this module you can extend a 2-channel electrotherapy machine into a 4-channel electrotherapy machine.
- An ultrasound module. With this module you can add ultrasound functionality to your device.
- A StatUS module. This module allows you to add the revolutionary new Stationary Ultrasound (StatUS) to your device.
- Three types of vacuum modules. With these modules you can integrate a vacuum machine into your system.
- An EMG module. With this module you can add biofeedback options to your device, in the form of both EMG and pressure feedback.
- A TFT screen module for the EMG unit. With this module you can display EMG and pressure feedback data on a large TFT screen.

Complete package
All upgrades are supplied as a complete package, including all accessories, so that your upgrade is operational immediately after installation. The ultrasound heads are supplied with the ultrasound modules. All cables and electrodes are supplied with the vacuum, electrotherapy and EMG modules.

1604950 6-series module AC/DC current function
1605950 6-series module ultrasound function
1608950 6-serie module StatUS function
1607950 6-series module EMG function
1606950 6-series module vacuum function 2 channel incl. pump
1606951 6-series module vacuum function 4 channel incl. pump
1606952 6-series module vacuum function 4 channel excl. pump
1607960 6-series module for remote LCD display function



Example 1

ORDERING DATA
1604950 6-series module AC/DC current function
1605950 6-series module ultrasound function
1608950 6-series module StatUS function
1607950 6-series module EMG function
1606950 6-series module vacuum function 2 channel incl. pump
1606951 6-series module vacuum function 4 channel incl. pump
1606952 6-series module vacuum function 4 channel excl. pump
1607960 6-series module for remote LCD display function

Example 2

1600905 Endomed 682
1606950 6-series module vacuum function 2 channel incl. pump
1605950 6-series module ultrasound function
Endomed 682V U
functional equivalent
1600955 Sonopuls 692V

SONOPULS 692

Complete equipment for ultrasound, electro and combination therapy

The comfort of ease of use

Imagine: Operating all forms of therapy with just one hand. Purely by touch, just like your computer's mouse. And being able to call up the treatment protocol of your choice directly on the colour LCD screen, so that you can fully concentrate on your client. Doesn't that sound comfortable? Well, it is possible. With the fully intuitively operated 6 series of treatment units for ultrasound and/or electrotherapy. This unique innovation from Enraf-Nonius makes work in your practice that bit more pleasant and efficient and also helps you to increase further the intensity (and the effect) of the treatment.

Versatile

The Sonopuls 692 is a versatile and highly advanced piece of equipment for ultrasound, electro and combination therapy. It offers all the options for the universal application of ultrasound with frequencies of 1 and 3 MHz. With these frequencies, both deep and surface tissue structures can be selectively treated. Continuous and pulsed applications of ultrasound are both possible. In addition, the Sonopuls 692 offers sixteen different types of current that can be applied as desired, in combination with the ultrasound.

Precise and helpful information on the display

The crystal clear and scratch-resistant LCD colour screen does not leave anything to be desired regarding clarity. The Sonopuls 692 is equipped with an exceptionally efficient therapy 'assistant'; an aid that will quickly prove to be indispensable in your practice.

You have all the relevant treatment protocols ready to hand. You can access all functions with the fingers of one hand, including information on the desired placement of the electrodes or the therapy that you wish to apply.

In addition, for each client you can create a separate protocol with the therapy wizard and store it in memory. At the next repeat consultation, you have the information available again in seconds and can 'get to work' straightaway.

The optimal ultrasound dosage

The Sonopuls 692 provides you with certainty concerning the actual power given from the ultrasound heads. The Enraf-Nonius equipment responds to the impedance of the underlying tissue and thus offers the possibility of setting the dosage extremely accurately.

V for vacuum

The Sonopuls 692V combines the Sonopuls 692 with a vacuum unit. This vacuum unit is a whisper quiet suction device with the possibility of applying four vacuum electrodes. The suction power can be set across a broad range and can be applied either continuously or pulsed. A regulator system activates the pump only when the vacuum has fallen below a certain minimum.

The vacuum electrodes are quick and easy to attach. They fit fully and comfortably to the body's surface. The electrode positioning is straightforward and easy and a good contact across the full surface of the electrode is ensured.

Combination therapy

Combination therapy is an extremely efficient form of treatment. In combination therapy, simultaneous use is made of the pain-reducing action of electrotherapy with the local metabolic changes through ultrasound therapy. This means it is possible to intervene at an early stage without imposing an inconvenient load to the client. In addition, results can also be achieved with chronic conditions since the continuance of a poor local circulation can be changed if both pain reducing yet stimulating treatment can be provided at the same time.

The Sonopuls 692V is the complete equipment for ultrasound, electro and combination therapy, with the possibility of application by means of vacuum electrodes.

This unit can be extended by means of functional modules. See page 13 for a more extensive explication and ordering data.

ORDERING DATA

1600945 Sonopuls 692
1600955 Sonopuls 692V

This unit can be extended by means of functional modules.
1608950 6-series module StatUS function
1607950 6-series module EMG function
1607960 6-series module for remote LCD display function

STANDARD ACCESSORIES

3444503 Vacuum electrodes Ø 60 mm, set of 2x2
1601901 Multi-frequency treatment head, large (5 cm2), 1 & 3 MHz
3444020 Strap 100x3 cm
3444021 Strap 250x3 cm
3444129 Rubber electrodes 6x8 cm, 2 mm female, 2x2 pc.
3444290 Mains cable 230V-EUR
1460266 Moist pads for rubber electrode 6x8 cm, set of 4
3444508 Vacuum electrode cable black, 2x
3444209 Patient cable 2-core & 2 mm male plugs-purple
1600810 Holder treatment head for 1 treatment head, 6-serie
9999408 Contact-gel, bottle 250 ml, 1 piece
3444505 Sponges Ø 65 mm, set of 4 (for vacuum electrodes Ø 60 mm)
3444078 Dummy plug
3440001 Screwdriver 6-series
3444208 Patient cable 2-core & 2 mm male plugs-black
3444507 Vacuum electrode cable red, 2x

OPTIONAL ACCESSORIES

1600820 EN-Point
1468940 EN-Car U
1497801 Remote control, 2 channels for 182, 482, 492 and 6-series
3444022 Strap 100x5 cm
3444023 Strap 250x5 cm
2523523 Adapter plug, 2 mm female, 4 mm male, black
2523524 Adapter plug, 2 mm female, 4 mm male, red
1601911 Multi-frequency treatment head, small (0,8 cm²), 1 & 3 MHz
3442929 Contact-gel, bottle 250 ml, box of 12
3442930 Contact-gel, bottle 850 ml, box of 12
3442931 Contact-gel, canister of 5 l
3442932 Dispenser-set for 5 l canister
3444056 EN-Trode Ø 3,2 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444135 EN-Trode Ø 5,0 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444057 EN-Trode 5x5 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444058 EN-Trode 5x9 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444146 EN-Trode 5x10 cm, double lead, packing of 10 sheets of 2 pcs.
3444128 Rubber electrodes 4x6 cm, 2 mm female, set of 2
3444130 Rubber electrodes 8x12 cm, 2 mm female, set of 2
1460273 Moist pads for rubber electrode 4x6 cm, set of 4
1460275 Moist pads for rubber electrode 8x12 cm, set of 4
3444504 Vacuum electrodes Ø 90 mm, set of 2
3444506 Sponges Ø 95 mm, set of 4 (for vacuum electrodes Ø 90 mm)

TECHNICAL SPECIFICATIONS

Current channels:	2, independent, fully galvanically isolated
Current types:	16 current types-36 variants (see table)
Ultrasound frequencies:	1 and 3 MHz
Ultrasound:	continuous and pulsed
Pulse frequency / duty cycle:	100 Hz/ 5, 10, 20, 50, 80% 16 Hz / 20% -48 Hz / 20%
Number of US connections:	2
Number of vacuum electrode connections:	4
Intensity:	0-2 W/cm² continuous, 0-3 W/cm² pulsed
Programmable positions:	unlimited
Pre-programmed protocols:	60 items
Supply voltage:	100-240 V ± 10% (50/60 Hz)
Dimensions (wxdxh):	45x37x29,5 cm
Weight:	6.2 kg

1600820 **1468940** **1497801** **3444020** **3444021** **3444022** **3444023** **3444208** **3444209** **2523523** **2523524** **1601901** **1601911** **3442930**

3442929 **3442931** **3442932** **3444056** **3444135** **3444057** **3444058** **3444146** **3444128** **3444129** **3444130** **1460273** **1460266** **1460275**

3444503 **3444504** **3444505** **3444506** **3444507** **3444508** **1608950** **1607950** **1607960**

CE 0197

SONOPULS 692V S

Complete unit for stationary ultrasound, electro and combination therapy

StatUS

Stationary US treatment (stationary ultrasound, or StatUS) is the latest development in the field of treatment comfort. Ultrasound treatment has been well-proven for muscle/ligament disorders and for ligament injuries. Of all the treatment strategies, local stimulation with ultrasound is the most efficient, because it provides optimal stimulation of complex and often moderately vasculated ligament tissue areas, with both mechanical and thermal stimuli. Tissue repair and function regeneration occur more quickly than with alternative methods.

The ultrasound application itself, however, is time-consuming and labour-intensive. An effective ultrasound treatment session traditionally consists of an application lasting several minutes, whereby the treatment head is moved over the area. This dynamic approach is necessary due to possible cavitation and hotspots that can occur in the tissue. With the revolutionary new technique of the StatUS, this dynamic method is no longer necessary.

With StatUS, the ultrasound application remains stationary. Thanks to intensity modulation, invented by Enraf-Nonius, hotspots no longer occur. With this technique the ultrasound head is kept at the same place, so that the stimulation occurs precisely where it is required. An added advantage is that the therapist does not need to hold the head in place, thus saving valuable time.

With the StatUS you can work faster, more specifically and efficiently. StatUS takes ultrasound to a new level, with increased comfort for both the patient and the physiotherapist.

ORDERING DATA

1600948 Sonopuls 692 S
1600957 Sonopuls 692V S
1600961 Sonopuls 690 S

STANDARD ACCESSORIES

xxx Gelpad StatUS (8x)
3442942 Fixation ring gelpad StatUS (3x)
3444209 Patient cable 2-core & 2 mm male plugs-purple
3440001 Screwdriver 6-series
3444020 Strap 100x3 cm
3444021 Strap 250x3 cm
1600810 Holder treatment head for 1 treatment head, 6-serie
9999408 Contact-gel, bottle 250 ml, 1 piece
1460266 Moist pads for rubber electrode 6x8 cm, set of 4
3444290 Mains cable 230V-EUR
3444208 Patient cable 2-core & 2 mm male plugs-black
3444503 Vacuum electrodes Ø 60 mm, set of 2x2
3444505 Sponges Ø 65 mm, set of 4 (for vacuum electrodes Ø 60 mm)
3444507 Vacuum electrode cable red, 2x
3444508 Vacuum electrode cable black, 2x
3444078 Dummy plug
3444129 Rubber electrodes 6x8 cm, 2 mm female, 2x2 pc.
1601901 Multi-frequency treatment head, large (5 cm²), 1 & 3 MHz
1601921 Ultrasound treatment head, large (5 cm²), 1 & 3 MHz StatUS

OPTIONAL ACCESSORIES

3442940 Gelpad StatUS (48x)
3442941 Gelpad StatUS (240x)
1468940 EN-Car U
1497801 Remote control, 2 channels for 182, 482, 492 and 6-series
1600820 EN-Point
3444022 Strap 100x5 cm
3444023 Strap 250x5 cm
2523523 Adapter plug, 2 mm female, 4 mm male, black
2523524 Adapter plug, 2 mm female, 4 mm male, red
3442929 Contact-gel, bottle 250 ml, box of 12
3442930 Contact-gel, bottle 850 ml, box of 12
3442931 Contact-gel, canister of 5 l
3442932 Dispenser-set for 5 l canister
3444056 EN-Trode Ø 3,2 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444135 EN-Trode Ø 5,0 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444057 EN-Trode 5x5 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444058 EN-Trode 5x9 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444146 EN-Trode 5x10 cm, double lead, packing of 10 sheets of 2 pcs.
3444128 Rubber electrodes 4x6 cm, 2 mm female, set of 2
3444130 Rubber electrodes 8x12 cm, 2 mm female, set of 2
1460273 Moist pads for rubber electrode 4x6 cm, set of 4
1460275 Moist pads for rubber electrode 8x12 cm, set of 4
3444504 Vacuum electrodes Ø 90 mm, set of 2
3444506 Sponges Ø 95 mm, set of 4 (for vacuum electrodes Ø 90 mm)

TECHNICAL SPECIFICATIONS

Current channels:	2, independent, fully galvanically isolated
Current types:	16 current types-36 variants (see table)
Ultrasound frequencies:	1 and 3 MHz
Ultrasound:	continuous and pulsed
StatUS:	duty cyle modulation and amplitude modulation
Pulse frequency / duty cycle:	100 Hz/ 5, 10, 20, 50, 80%-16 Hz / 20%-48 Hz / 20%
Number of US connections:	2
Number of vacuum electrode connections:	4
Intensity:	0-2 W/cm² continuous, 0-3 W/cm² pulsed
Programmable positions:	unlimited
Pre-programmed programmes:	60 items
Supply voltage:	100-240 V ± 10% (50/60 Hz)
Dimensions (wxdxh):	45x37x29,5 cm
Weight:	6.2 kg

1468940 **1497801** **1600820** **3444020** **3444021** **3444022** **3444023** **3444208** **3444209** **3444507** **3444508** **2523523** **2523524** **3442930**

3442929 **3442931** **3442932** **3444056** **3444135** **3444057** **3444058** **3444146** **3444128** **3444129** **3444130** **1460273** **1460266** **1460275**

3444503 **3444504** **3444505** **3444506** **1601921** **1601901** **3442940/3442941**

CE 0197

SONOPULS 492

Complete unit for ultrasound and combination therapy

High quality, extreme functionality and an eye-catching design, provide the professional physiotherapist with all modern current forms and multi-frequency ultrasound. With this technology it is possible to generate three different applications at the same time:

- Current over channel 1
- Current over channel 2
- Ultrasound

For optimal use, we have created more than 60 pre-programmed protocols, providing you with not only the best way to treat your patient, but also the most efficient way.

To work in style and comfort, Enraf-Nonius has created the EN-Car U. This stylish cart has been designed to accommodate the Vacotron 460 vacuum unit with our Sonopuls 492, providing an attractive and totally practical storage as well as a solution to your requirements.

With a battery (optional) you change the Sonopuls 492 from a tabletop into a portable unit. For ambulant treatments, carrier systems are available.

The remote control (optional) is a perfect aid to involve the patient in the treatment. The patient can easily set the intensity independently.

In combination with the Vacotron S, you have a perfect table model that takes up little space, is easy to operate and offers a good overview.

- Multi-frequency treatment head 1 & 3 MHz
- Contact control
- Combination therapy
- 19 Current forms for electrotherapy
- 10 Free programmable memory positions for simple protocols
- 10 Free programmable memory positions for sequential protocols
- 10 Treatment suggestions for ultrasound
- 51 Treatment suggestions for electrotherapy

ORDERING DATA

1497921 Sonopuls 492

STANDARD ACCESSORIES

9999408 Contact-gel, bottle 250 ml, 1 piece
3444290 Mains cable 230V-EUR
1458901 Multi-frequency treatment head, large, 1 & 3 MHz
3444119 Patient cable 2-core & 2 mm male plugs-purple
1497761 Protocol book for Sonopuls 492
1497752 Operating manual Sonopuls 492
3444021 Strap 250x3 cm
3444020 Strap 100x3 cm
1460266 Moist pads for rubber electrode 6x8 cm, set of 4
3444129 Rubber electrodes 6x8 cm, 2 mm female, 2x2 pc.
3444102 Patient cable 2-core & 2 mm male plugs-black
3444101 Cable adapter for 3444102 / 3444119
3444127 Adapter ENA-1550 100-240V

OPTIONAL ACCESSORIES

3444658 Bag for Endomed and Sonopuls 4-serie, black
3444650 Case for Endomed and Sonopuls 4-series, grey
1468940 EN-Car U
1497801 Remote control, 2 channels for 182, 482, 492 and 6-series
2501016 Battery 12.0V 1.8AH
3444023 Strap 250x5 cm
3444022 Strap 100x5 cm
2523523 Adapter plug, 2 mm female, 4 mm male, black
2523524 Adapter plug, 2 mm female, 4 mm male, red
1458911 Multi-frequency treatment head, small, 1 & 3 MHz
1497811 Holder for 2 treatment heads, 4-serie
1497810 Holder remote control or 1 treatment head, 4-serie
3442929 Contact-gel, bottle 250 ml, box of 12
3442930 Contact-gel, bottle 850 ml, box of 12
3442931 Contact-gel, canister of 5 l
3442932 Dispenser-set for 5 l canister
3444056 EN-Trode Ø 3,2 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444135 EN-Trode Ø 5,0 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444057 EN-Trode 5x5 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444058 EN-Trode 5x9 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444146 EN-Trode 5x10 cm, double lead, packing of 10 sheets of 2 pcs.
3444128 Rubber electrodes 4x6 cm, 2 mm female, set of 2
3444130 Rubber electrodes 8x12 cm, 2 mm female, set of 2
1460273 Moist pads for rubber electrode 4x6 cm, set of 4
1460275 Moist pads for rubber electrode 8x12 cm, set of 4
1480800 Electrode holder for 1480801
1480801 Point electrode Ø 5 mm, 4 mm female (in combination with 2523523)

TECHNICAL SPECIFICATIONS

Current channels:	2, independent
Ultrasound:	1
Ultrasound frequencies:	1 and 3 MHz
Ultrasound:	continuous and pulsed
Pulse frequency / duty cycle:	100 Hz
Number of connections:	1
Intensity:	0-2 W/cm², 0-3 W/cm², duty cycle 5, 10, 20, 50%
Programmable positions:	10 single, 10 sequential
Pre-programmed:	50
Type mains adapter:	ENA-1550
Mains voltage:	100-240 V ± 10% (50/60 Hz)
Output:	15 VDC/3,3 A
Dimensions (wxdxh):	29x28x11 cm
Weight:	4 kg

3444658 **3444650** **1468940** **1497801** **2501016** **3444020** **3444021** **3444022** **3444023** **3444119** **3444102** **2523523** **2523524** **1458901**

1458911 **1497811** **1497810** **3442930** **3442929** **3442931** **3442932** **3444056** **3444135** **3444057** **3444058** **3444146** **3444128** **3444129**

3444130 **1460273** **1460266** **1460275** **1480800** **1480801** **3444380**

SONOPULS 491

Combination unit for ultrasound, electro and combination therapy

With this combination unit, you have all possibilities for a universal application of ultrasound therapy with 2 frequencies: 1 and 3 MHz.

Multi-frequency treatment head

- Ergonomic design and user-friendly
- Water resistant
- Low weight
- Equipped with a visual indicator for contact control

Simple operation

The operation buttons are conveniently arranged on the control panel. The parameters are easily set by means of one central control and remain visible on screen during treatment.

The Sonopuls 491 cannot be used in combination with the Vacotron S. The Sonopuls 491 is a portable and battery-operated unit that is suited for ultrasound therapy, interferential, TENS, direct current and combination therapy.
The Sonopuls 491 can also be connected to the mains supply for continuous use.

- Continuous and pulsed ultrasound therapy
- Multi-frequency treatment head with 1 and 3 MHz
- Contact control: automatic power switch-off and treatment time interruption in case of insufficient contact; The visual indicator of the treatment head switched on
- 3 Current types for electro-therapy
- Variable carrier frequency of 2, 4 or 10 kHz at bi-polar interferential
- Combination of ultrasound with one of the three current types
- 10 Free programmable memory positions
- Very well suited for the treatment of clinic patients or patients at home

ORDERING DATA

1497910 Sonopuls 491

STANDARD ACCESSORIES

9999408 Contact-gel, bottle 250 ml, 1 piece
3444111 Mains connecting cable, EUR
1497750 Operating manual Sonopuls 490 and 491
1458901 Multi-frequency treatment head, large, 1 & 3 MHz
3444021 Strap 250x3 cm
1460266 Moist pads for rubber electrode 6x8 cm, set of 4
1460265 Rubber electrodes 6x8 cm, 4 mm female, set of 2
3444088 Patient cable, 2-core & 4 mm male plugs
3444132 Adapter ENA 1810 100-240V (Sonopuls 490/491, EN-Free)

OPTIONAL ACCESSORIES

1468940 EN-Car U
3444281 Two-way connecting cable for multiple-electrode technique
3444650 Case for Endomed and Sonopuls 4-series, grey
3444658 Bag for Endomed and Sonopuls 4-serie, black
3444023 Strap 250x5 cm
3444020 Strap 100x3 cm
3444022 Strap 100x5 cm
1460424 Adapter plug, 4 mm female, 2 mm male
2523523 Adapter plug, 2 mm female, 4 mm male, black
2523524 Adapter plug, 2 mm female, 4 mm male, red
1458911 Multi-frequency treatment head, small, 1 & 3 MHz
1497811 Holder for 2 treatment heads, 4-serie
1497810 Holder remote control or 1 treatment head, 4-serie
3442929 Contact-gel, bottle 250 ml, box of 12
3442930 Contact-gel, bottle 850 ml, box of 12
3442931 Contact-gel, canister of 5 l
3442932 Dispenser-set for 5 l canister
3444056 EN-Trode Ø 3,2 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444135 EN-Trode Ø 5,0 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444057 EN-Trode 5x5 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444058 EN-Trode 5x9 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444146 EN-Trode 5x10 cm, double lead, packing of 10 sheets of 2 pcs.
1460272 Rubber electrodes 4x6 cm, 4 mm female, set of 2
1460274 Rubber electrodes 8x12 cm, 4 mm female, set of 2
1460273 Moist pads for rubber electrode 4x6 cm, set of 4
1460275 Moist pads for rubber electrode 8x12 cm, set of 4
1480800 Electrode holder for 1480801
1480801 Point electrode Ø 5 mm, 4 mm female (in combination with 2523523)

TECHNICAL SPECIFICATIONS

Ultrasound frequencies:	1 and 3 MHz
Ultrasound:	continuous and pulsed
Pulse frequency / duty cycle:	100 Hz / 5, 10, 20, 50%
Number of connections:	1
Intensity:	1,5 W/cm², continuous, 0-3 W/cm², pulsed
Programming positions:	memory for 10 sets of freely selectable therapy parameters
Model number battery charger:	ENA-1810
Mains voltage:	100-240 V ± 10% (50/60 Hz)
Output:	18 VDC/840 mA
Battery:	12 V, 1.8Ah maintenance-free lead accumulator
Weight:	4.0 kg
Dimensions (wxdxh):	29x28x10.5 cm

1468940 **3444281** **3444650** **3444658** **3444020** **3444021** **3444022** **3444023** **3444088** **1460424** **2523523** **2523524** **1458901** **1458911**

1497811 **1497810** **3442930** **3442929** **3442931** **3442932** **3444056** **3444135** **3444057** **3444058** **3444146** **1460272** **1460265** **1460274**

1460273 **1460266** **1460275** **1480800** **1480801**

CE 0197

SONOPULS 490

Compact unit for ultrasound therapy

Ultrasound is successfully used for the treatment of wounds, post-traumatic complaints, circulatory conditions and conditions of the skin and peripheral nerves. With the Sonopuls 490, you have all the possibilities for the universal application of ultrasound with two ultrasound frequencies: 1 and 3 MHz. These frequencies have different absorption characteristics so that both surface and deep tissue structures can be treated selectively. Both continuous and pulsed applications of ultrasound are possible.

The combination of the high power of 2 W/cm² with the large ERA (Effective Radiation Area) of the Enraf-Nonius ultrasound heads ensure that you can treat at great depth and that you can reduce the treatment time compared with lower dosage equipment.

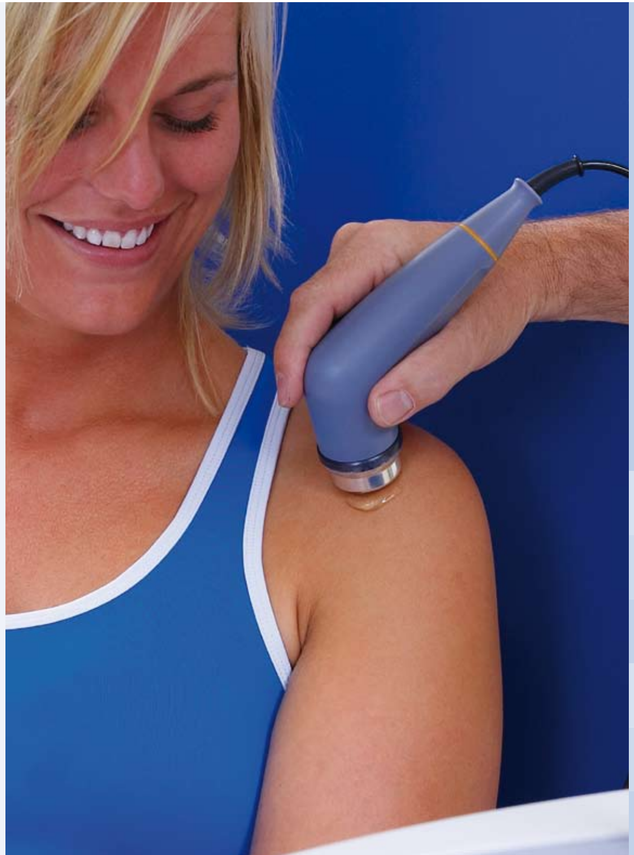
In addition, the Sonopuls 490 features nine pre-programmed protocols and has the possibility to store nine of your own protocols. As a result the Sonopuls 490 is exceptionally easy to operate.

The updated Sonopuls 490 is a mains-powered piece of equipment. This means the Sonopuls 490 is ready for use throughout the day. In addition, for ambulatory treatment or treatment at home, a rechargeable battery can be supplied as an option.

Combination therapy

By means of a connection cable (optional accessory), the Sonopuls 490 can be used in combination with the all electrotherapy units of the 4-, 5- and 9-series.

- Continuous and pulsed ultrasound therapy
- Multi-frequency treatment head with 1 and 3 MHz
- Contact control: automatic power switch-off and treatment time interruption in case of insufficient contact; The visual indicator of the treatment head switched on
- 9 free programmable memory positions
- Well suited for treatment of hospitalised patients or patients at home



ORDERING DATA

1497906 Sonopuls 490

STANDARD ACCESSORIES

9999408 Contact-gel, bottle 250 ml, 1 piece
3444290 Mains cable 230V-EUR
1497780 User Manual Sonopuls 490
3444127 Adapter ENA-1550 100-240V
1458901 Multi-frequency treatment head, large, 1&3 MHz

OPTIONAL ACCESSORIES

1468940 EN-Car U
2501016 Battery 12.0V 1.8AH
1497803 Connection cable for electrotherapy and combination units of the 5- and 9-series
1497802 Connection cable for electrotherapy and combination units of the 4 series
3444650 Case for Endomed and Sonopuls 4-series, grey
3444658 Bag for Endomed and Sonopuls 4-serie, black
1458911 Multi-frequency treatment head, small, 1&3 MHz
1497811 Holder for 2 treatment heads, 4-serie
1497810 Holder remote control or 1 treatment head, 4-serie
3442929 Contact-gel, bottle 250 ml, box of 12
3442930 Contact-gel, bottle 850 ml, box of 12
3442931 Contact-gel, canister of 5 l
3442932 Dispenser-set for 5 l canister

TECHNICAL SPECIFICATIONS

Ultrasound, frequencies:	1 and 3 MHz
Ultrasound:	continuous and pulsed Pulse
frequency / duty cycle:	100 Hz / 5, 10, 20, 50%
Number of connections:	1
Intensity:	0-2 W/cm², continuous, 0-3 W/cm², pulsed
Programmable positions:	memory for 10 sets of freely selectable therapy parameters
Pre-programmed positions:	9
Type mains adapter:	ENA-1550
Mains voltage:	100-240 V ± 10% (50/60 Hz)
Output:	15 VDC/3.3 A
Dimensions:	29x28x10,5 cm
Weight (wxdxl):	4.0 kg

1468940 **2501016** **1497803** **1497802** **3444650** **3444658** **1458901**

1458911 **1497811** **1497810** **3442930** **3442929** **3442931** **3442932**

SONOPULS 190

Ultrasound unit

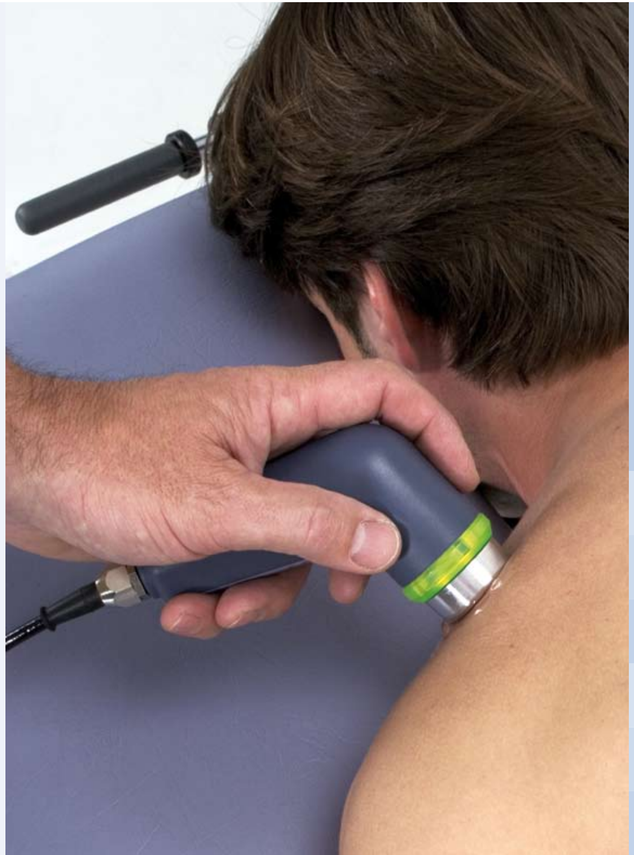
With the Sonopuls 190, continuous and pulsed ultrasound therapy can be applied with a treatment frequency of 1 MHz. The treatment head, with large treatment surface, is permanently connected to the Sonopuls 190.

Utilising a small number of push buttons, the unit is set and ready for use. Adjusting the treatment parameters, the set values remain constantly visible on the large display. During treatment, an optimal overview of the treatment parameters is guaranteed by the arrangement of the control panel and angle in which the unit is set.

An optimal use of the set treatment time is guaranteed by the visual and/or acoustic contact control. The treatment is interrupted in case of insufficient acoustic contact until the contact is completely restored, which guarantees optimal treatment.

The treatment parameters of nine of the most common indications are pre-programmed into the Sonopuls 190. Treatment with one of these treatment options is simply started by pushing a button. A free programmable start-up program assures that the unit is set on your favourite treatment protocol as soon as the unit is turned on.

- Simple operation
- Optimal overview on the control panel
- Contact control: automatic power switch-off and treatment time interruption in case of insufficient contact
- Nine pre-programmed indications
- Free programmable start-up program



ORDERING DATA

1416900 Sonopuls 190 100-240V

STANDARD ACCESSORIES

9999408 Contact-gel, bottle 250 ml, 1 piece
1416750 Operating manual Sonopuls 190
3444111 Mains connecting cable, EUR
3444110 Net Adapter ENB-1530 100-240VAC 15V for Sonopuls 190 and Endomed 182

OPTIONAL ACCESSORIES

3444061 Bag for Endomed and Sonopuls 1-serie, black
1416800 Holder treatment head for remote control or 1 treatment head, 1-serie
3442929 Contact-gel, bottle 250 ml, box of 12
3442930 Contact-gel, bottle 850 ml, box of 12
3442931 Contact-gel, canister of 5 l
3442932 Dispenser-set for 5 l canister

TECHNICAL SPECIFICATIONS

Ultrasound frequency:	1 MHz
Ultrasound:	continuous and pulsed
Pulse frequency / duty cycle:	100 Hz / 5, 10, 20, 50, 80%
US Intensity:	0-3 W/cm²
Pre-programmed protocols:	9
Model number mains adapter:	ENB-1530
Mains voltage:	100-240 V ± 10% (50/60 Hz)
Output:	15 VDC/3,4 A
Weight:	1.7 kg
Dimensions:	22 x 20 x 19,5 cm

3444061 **1416800** **3442930** **3442929** **3442931** **3442932**

ENDOMED 684V

Compleet 4-channel unit for electrotherapy

The comfort of ease of use

With the Endomed 684, you can operate all forms of electrotherapy with just one hand. Purely by touch, just like your computer's mouse. The ability to call up the treatment protocol of your choice directly on the colour LCD screen, allows you to concentrate fully on your client. This unique innovation from Enraf-Nonius makes work in your practice that bit more pleasant and efficient and also helps you to increase further the variation (and the effect) of the treatment.

Versatile

The Endomed 684 is a versatile and highly advanced piece of equipment for electrotherapy. The Endomed 684 has seventeen different types of current. These current types have been shown to be effective in the fight against pain, the restoration of tissue and the stimulation of muscles. The Endomed 684 is an advanced four-channel current device for a broad application area.

Wide range of settings

The wide settings range of the various types of current makes it possible to selectively stimulate nerve cells. The selection of the type of current depends on the objective of the treatment and the acceptance level of the client. By selecting the right current type to influence the right fibres, the optimal results can be achieved. The Endomed 684 makes it possible to find the right form of current for each client.

Four channels

The Endomed 684 has four channels. The channels can be set independently and are fully galvanically isolated (extremely safe). With the aid of four channels, the various parts of a muscle can be selectively stimulated or a number of muscles can be stimulated at the same time. In addition, with four channels it is possible to apply local and segmental applications with various forms of current. This allows maximum results in pain reduction and stimulation to be reached.

V for vacuum

The Endomed 684V combines the complete unit for electrotherapy, the Endomed 684 with a vacuum unit. This vacuum unit is a whisper quiet suction device with the possibility of applying eight vacuum electrodes. The suction power can be set across a broad range and can be applied either continuously or pulsed. A regulator system lets the pump work only when the vacuum has fallen below a certain minimum.
The vacuum electrodes are quick and easy to attach. They fit fully and comfortably to the body's surface. The electrode positioning is straightforward and easy and you also ensure good contact across the full surface of the electrode.

This unit can be extended by means of functional modules.
See page 13 for a more extensive explication and ordering data.

ORDERING DATA

1600925 Endomed 684
1600935 Endomed 684V

STANDARD ACCESSORIES

3444209 Patient cable 2-core & 2 mm male plugs-purple, 2x
3444208 Patient cable 2-core & 2 mm male plugs-black, 2x
3444078 Dummy plug
3444508 Vacuum electrode cable black, 4x
3444507 Vacuum electrode cable red, 4x
3444505 Sponges Ø 65 mm, set of 2x4 (for vacuum electrodes Ø 60 mm)
3444503 Vacuum electrodes Ø 60 mm, set of 2x4
3444290 Mains cable 230V-EUR
3444129 Rubber electrodes 6x8 cm, 2 mm female, 2x4 pc.
3444021 Strap 250x3 cm, 2x
3444020 Strap 100x3 cm, 2x
1460266 Moist pads for rubber electrode 6x8 cm, set of 2x 4

OPTIONAL ACCESSORIES

1468940 EN-Car U
1600820 EN-Point
1497801 Remote control, 2 channels for 182, 482, 492 and 6-series
3444022 Strap 100x5 cm
3444023 Strap 250x5 cm
2523523 Adapter plug, 2 mm female, 4 mm male, black
2523524 Adapter plug, 2 mm female, 4 mm male, red
3444056 EN-Trode Ø 3,2 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444135 EN-Trode Ø 5,0 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444057 EN-Trode 5x5 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444058 EN-Trode 5x9 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444146 EN-Trode 5x10 cm, double lead, packing of 10 sheets of 2 pcs.
3444128 Rubber electrodes 4x6 cm, 2 mm female, set of 2
3444130 Rubber electrodes 8x12 cm, 2 mm female, set of 2
1460273 Moist pads for rubber electrode 4x6 cm, set of 4
1460275 Moist pads for rubber electrode 8x12 cm, set of 4
3444504 Vacuum electrodes Ø 90 mm, set of 2
3444506 Sponges Ø 95 mm, set of 4 (for vacuum electrodes Ø 90 mm)

TECHNICAL SPECIFICATIONS

Current channels:	4, independent, fully galvanically separated
Current forms:	16 current forms-36 varieties
Programmable positions:	unlimited
Pre-programmed programmes:	60
Vacuum:	continuous and pulsed
Mains voltage:	100-240 V ± 10% (50/60 Hz)
Measurements (wxdxh):	39x37x29,5 cm
Weight:	6.2 kg

1600820

1468940

1497801

3444020

3444021

3444022

3444023

3444208

3444209

3444507

3444508

2523523

2523524

3444056

3444135

3444057

3444058

3444146

3444128

3444129

3444130

1460266

3444503

3444504

3444505

3444506

ENDOMED 682V

Complete equipment for electrotherapy

The Endomed 682V combines the complete unit for electrotherapy, the Endomed 682 with a vacuum unit. This vacuum unit is a whisper quiet suction device with the possibility of applying four vacuum electrodes. The suction power can be set across a broad range and can be applied either continuously or pulsed. A regulator system lets the pump work only when the vacuum has fallen below a certain minimum.

The vacuum electrodes are quick and easy to attach. They fit fully and comfortably to the body's surface. The electrode positioning is straightforward and easy and you also ensure good contact across the full surface of the electrode.

Local and segmental

The Endomed 682V has two separate channels as standard. This means that you can apply all the above types of current per channel at various locations. Thus there is the possibility of working with different current types for local and segmental applications: You can for example select bipolar interferential on one channel and use a TENS current type on the other channel.

With muscle strengthening, it is possible to set the training programmes for both channels separately and if desired change the (a)synchronisation between them. Especially for the major muscle groups such as the m. Quadriceps Femoris, this means that functional results can be quickly achieved.

Particularly for multiple channel applications of electrotherapy, a vacuum unit is indispensable. To achieve proper electrode contact on large surfaces, the use of vacuum electrodes is necessary. In addition, the application is simple and sure and thus you avoid unnecessary and lengthy actions for the proper attachment of the electrodes.

This unit can be extended by means of functional modules. See page 13 for a more extensive explication and ordering data.

ORDERING DATA

1600905 Endomed 682
1600915 Endomed 682V

This unit can be extended by means of functional modules.
1604950 6-series module AC/DC currents
1605950 6-series module ultrasound function
1608950 6-series module StatUS function
1607950 6-series module EMG function
1607960 6-series module for remote LCD display function

STANDARD ACCESSORIES

3444209 Patient cable 2-core & 2 mm male plugs-purple
3444208 Patient cable 2-core & 2 mm male plugs-black
3444078 Dummy plug
3444508 Vacuum electrode cable black, 2x
3444507 Vacuum electrode cable red, 2x
3444505 Sponges Ø 65 mm, set of 4 (for vacuum electrodes Ø 60 mm)
3444503 Vacuum electrodes Ø 60 mm, set of 2x2
3444290 Mains cable 230V-EUR
3444129 Rubber electrodes 6x8 cm, 2 mm female, 2x2 pc.
3444021 Strap 250x3 cm
3444020 Strap 100x3 cm
1460266 Moist pads for rubber electrode 6x8 cm, set of 4

OPTIONAL ACCESSORIES

1600820 EN-Point
1468940 EN-Car U
1497801 Remote control, 2 channels for 182, 482, 492 and 6-series
3444022 Strap 100x5 cm
3444023 Strap 250x5 cm
2523523 Adapter plug, 2 mm female, 4 mm male, black
2523524 Adapter plug, 2 mm female, 4 mm male, red
3444056 EN-Trode Ø 3,2 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444135 EN-Trode Ø 5,0 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444057 EN-Trode 5x5 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444058 EN-Trode 5x9 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444146 EN-Trode 5x10 cm, double lead, packing of 10 sheets of 2 pcs.
3444128 Rubber electrodes 4x6 cm, 2 mm female, set of 2
3444130 Rubber electrodes 8x12 cm, 2 mm female, set of 2
3444504 Vacuum electrodes Ø 90 mm, set of 2
3444506 Sponges Ø 95 mm, set of 4 (for vacuum electrodes Ø 90 mm)

TECHNICAL SPECIFICATIONS

Current channels:	2, independent, fully galvanically separated
Current forms:	16 current forms-36 varieties
Programmable positions:	unlimited
Pre-programmed programmes:	60
Vacuum:	continuous and pulsed
Mains voltage:	100-240 V ± 10% (50/60 Hz)
Measurements (wxdxh):	39x37x29,5 cm
Weight:	6.2 kg

1600820

1468940

1497801

3444020

3444021

3444022

3444023

3444208

3444209

3444507

3444508

2523523

2523524

3444056

3444135

3444057

3444058

3444146

3444128

3444129

3444130

1460266

3444503

3444504

3444505

3444506

1604950

1605950

1608950

1607950

1607960

ENDOMED 482

2-Channel unit for electrotherapy and diagnostics

In the field of electrotherapy and diagnostics, the Endomed 482 can do just about everything. As many as 18 current types can be selected, so that all customary forms of electrotherapy can be performed. In the development of this equipment, ease of operation and functionality were of vital importance. The large, easy-to-read display shows clear information on all parameters, both during setting up and while performing the treatment.

The Endomed 482 has two completely separate channels. For each channel you can set various current types. This means that you can, for example, work with different current types for local and segmental applications.

The Endomed 482 guarantees optimal deployability for a wide application area. In addition to all the usual direct current types and interference (both 2- and 4-pole and also with automatic vector), it is also possible with the Endomed 482 to contract very large muscle groups using interference. This is thanks to Endomed 482's high output power.

The Endomed 482 provides pre-programmed protocols, but also has freely programmable memory slots. Accessing these is straightforward and you can model the equipment precisely to your personal preferences.

In combination with a Vacotron (the Vacotron S or the Vacotron 460), even the most difficult places can be included in the treatment. Where it is difficult to apply an electrode, or Velcro is not desirable or possible, this combination offers the solution.

To use the Endomed 482 optimally in practice, an equipment trolley, the EN-Car U, is available. On the EN-Car U, you have the Endomed 482 and all accessories clearly laid out and within reach and you can always easily move the equipment to the right location for each treatment.

Besides the mains power supply, it is also possible to equip the Endomed 482 with a rechargeable battery. This means that you can use the equipment wherever you wish, at the hospital bed, at a patient's home, on location, in short anywhere!

- Low and medium frequency current types
- Variable carrier frequencies of 2, 4 or 10 kHz at bi-polar interferential
- Pre-programmed simple protocols
- Pre-programmed sequential protocols
- 10 free programmable memory positions for simple protocols
- 10 free programmable memory positions for sequential protocols of 10 steps
- Classical tetrapolar and isoplanar interferential with or without dipole vector
- Adjustable intensity per channel
- Pre-programmed treatment protocols

ORDERING DATA

1497965 Endomed 482 100-240 V

STANDARD ACCESSORIES

1497760 Protocolbook
3444119 Patient cable 2-core & 2 mm male plugs-purple
1497759 Operating manual Endomed 482
3444021 Strap 250x3 cm
3444020 Strap 100x3 cm
1460266 Moist pads for rubber electrode 6x8 cm, set of 4
3444129 Rubber electrodes 6x8 cm, 2 mm female, 2x2 pc.
3444102 Patient cable 2-core & 2 mm male plugs-black
3444101 Cable adapter for 3444102 / 3444119
3444290 Mains cable 230V-EUR
3444127 Adapter ENA-1550 100-240V

OPTIONAL ACCESSORIES

3444658 Bag for Endomed and Sonopuls 4-serie, black
2501016 Battery 12.0V 1.8AH
3444650 Case for Endomed and Sonopuls 4-series, grey
1497801 Remote control, 2 channels for 182, 482, 492 and 6-series
3444023 Strap 250x5 cm
3444022 Strap 100x5 cm
2523523 Adapter plug, 2 mm female, 4 mm male, black
2523524 Adapter plug, 2 mm female, 4 mm male, red
1497810 Holder remote control or 1 treatment head, 4-serie
3444056 EN-Trode Ø 3,2 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444135 EN-Trode Ø 5,0 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444057 EN-Trode 5x5 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444058 EN-Trode 5x9 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444146 EN-Trode 5x10 cm, double lead, packing of 10 sheets of 2 pcs.
3444128 Rubber electrodes 4x6 cm, 2 mm female, set of 2
3444130 Rubber electrodes 8x12 cm, 2 mm female, set of 2
1460273 Moist pads for rubber electrode 4x6 cm, set of 4
1460275 Moist pads for rubber electrode 8x12 cm, set of 4
1480800 Electrode holder for 1480801
1480801 Point electrode Ø 5 mm, 4 mm female (in combination with 2523523)
3444380 Silicon electrode 5x5 cm TENS

TECHNICAL SPECIFICATIONS

Current channels:	2, independent
Type mains adapter:	ENA-1550
Mains voltage:	100-240 V ± 10% (50/60 Hz)
Output voltage:	15 V
Max. output current:	3,3 A
Dimensions (wxdxh):	29x28x11 cm
Weight:	4 kg

3444650

2501016

1497801

3444658

3444020

3444021

3444022

3444023

3444119

3444102

2523523

2523524

1497810

3444056

3444135

3444057

3444058

3444146

3444128

3444129

3444130

1460273

1460266

1460275

1480800

1480801

3444380

ENDOMED 182

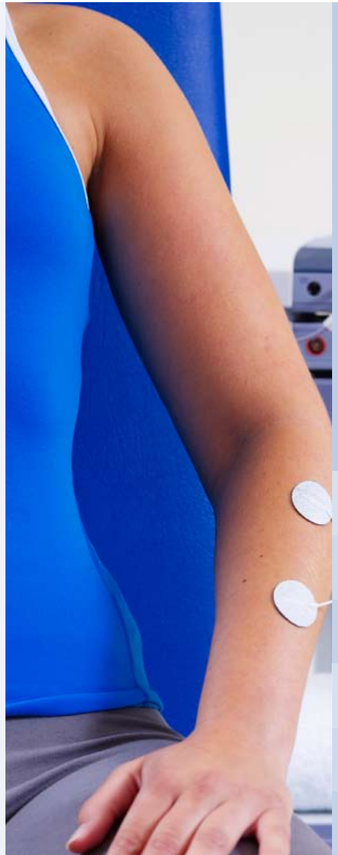
Unit for electrotherapy

The Endomed 182 is a complete unit for pain management with interferential, pre-modulated and TENS currents.

The position of the buttons alongside the large display creates an extremely user-friendly interface. This allows perfect control and an overview of the selected parameters during treatment.

The functionality of the unit is designed for maximum control with minimal action. The pre-programmed protocols are easy to activate. Full control remains available for individual adjustments.

- 2-Pole interferential, available over 2 channels
- Tetrapolar interferential
- Isoplanary interferential
- Asymmetrical biphasic pulsed current (TENS)
- Burst TENS
- 30 pre-programmed treatment suggestions, adjustable and rewritable
- Large, crystal clear parameter display
- Personalised start-up program



ORDERING DATA

1416920 Endomed 182 100-240V

STANDARD ACCESSORIES

3444119 Patient cable 2-core & 2 mm male plugs-purple
1416760 Therapy protocol Endomed 182
1416751 Operating manual Endomed 182
3444021 Strap 250x3 cm
3444020 Strap 100x3 cm
1460266 Moist pads for rubber electrode 6x8 cm, set of 4
3444129 Rubber electrodes 6x8 cm, 2 mm female, 2x2 pc.
3444102 Patient cable 2-core & 2 mm male plugs-black
3444101 Cable adapter for 3444102 / 3444119
3444111 Mains connecting cable, EUR
3444110 Net Adapter ENB-1530 100-240VAC 15V for Sonopuls 190 and Endomed 182

OPTIONAL ACCESSORIES

1497801 Remote control, 2 channels for 182, 482, 492 and 6-series
3444061 Bag for Endomed and Sonopuls 1-serie, black
3444023 Strap 250x5 cm
3444022 Strap 100x5 cm
2523523 Adapter plug, 2 mm female, 4 mm male, black
2523524 Adapter plug, 2 mm female, 4 mm male, red
1416800 Holder treatment head for remote control or 1 treatment head, 1-serie
3444056 EN-Trode Ø 3,2 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444135 EN-Trode Ø 5,0 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444057 EN-Trode 5x5 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444058 EN-Trode 5x9 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444146 EN-Trode 5x10 cm, double lead, packing of 10 sheets of 2 pcs.
3444128 Rubber electrodes 4x6 cm, 2 mm female, set of 2
3444130 Rubber electrodes 8x12 cm, 2 mm female, set of 2
1460273 Moist pads for rubber electrode 4x6 cm, set of 4
1460275 Moist pads for rubber electrode 8x12 cm, set of 4
1480800 Electrode holder for 1480801
1480801 Point electrode Ø 5 mm, 4 mm female (in combination with 2523523)
3444380 Silicon electrode 5x5 cm TENS

TECHNICAL SPECIFICATIONS

Type mains adapter: ENB-1530
Mains voltage: 100-240 Volt ± 10% (50/60Hz)
Output: 15 VDC/3,4A
Dimensions (wxhxd): 22x20x20 cm
Weight: 1.8 kg

3444061

1497801

3444020

3444021

3444022

3444023

3444119

3444102

2523523

2523524

3444056

3444135

3444057

3444058

3444146

3444128

3444129

3444130

1460273

1460266

1460275

1480800

1480801

3444380

VACOTRON S

2-channel vacuum unit

The application of electrotherapy is even easier when using the Vacotron S. Body parts where positioning of rubber electrodes is not possible, are easy to treat by means of this vacuum unit.

The Vacotron S was specially developed for the Sonopuls 492 and the Endomed 482. These pieces of equipment can be placed neatly on the Vacotron so that a stylish unity is achieved. In addition, the top of the Vacotron S has a gentle slope so that the visibility of the display of the treatment equipment is improved.

- Can be used in combination with the Endomed 482 and Sonopuls 492
- Continuous and intermittent suction
- Accurate adjustment of the suction strength
- Unique cable connection for fast application of rubber electrodes
- Can only be used as tabletop model or on the EN-Car U

ORDERING DATA

1452900 Vacotron S 100-240V

STANDARD ACCESSORIES

3444508 Vacuum electrode cable black, 2x
3444507 Vacuum electrode cable red, 2x
3444078 Dummy plug
3444505 Sponges Ø 65 mm, set of 4
(for vacuum electrodes Ø 60 mm)
3444503 Vacuum electrodes Ø 60 mm, set of 2x2
1452750 Operating manual Vacotron S

OPTIONAL ACCESSORIES

3444504 Vacuum electrodes Ø 90 mm, set of 2
3444506 Sponges Ø 95 mm, set of 4
(for vacuum electrodes Ø 90 mm)
3444127 Adapter ENA-1550 100-240V

TECHNICAL SPECIFICATIONS

Vacuum: continuous and pulsed
Power supply: 15 VDC
Current consumption: 1,0 A
Dimensions (wxdxh): 24,5x21x9 cm
Weight: 4,2 kg

3444507 **3444508** **3444127** **3444503** **3444504** **3444505** **3444506**

CE 0197

VACOTRON 460

2-channel vacuum unit

The application of electrotherapy is even easier when using the Vacotron 460. Body parts where the positioning of rubber electrodes is not possible are easy to treat by means of this vacuum unit.

- Can be connected to all the electrotherapy and combination units of the 4-series
- Quick application of vacuum electrodes on positions where fixation straps cannot be used
- Continuous and intermittent suction
- Accurate adjustment of the suction strength
- Unique cable connection for fast application of rubber electrodes
- Designed for integration on the EN-Car U
- Can also be used as tabletop model

ORDERING DATA

1450901 Vacotron 460 230V/50-60Hz
1450902 Vacotron 460 115V/50-60Hz

STANDARD ACCESSORIES

3444299 Mains cable 115V-UL-CSA
3444508 Vacuum electrode cable black, 2x
3444507 Vacuum electrode cable red, 2x
1490750 Operating manual Vacotron 460 and 560
3444078 Dummy plug
3444098 Water reservoir for Vacotron 460 and 560

3444505 Sponges Ø 65 mm, set of 4
(for vacuum electrodes Ø 60 mm)
3444503 Vacuum electrodes Ø 60 mm, set of 2x2
3444112 Patient cable 2-core, with 2 mm male plugs, 2x
3444298 Mains cable 230V-EUR

OPTIONAL ACCESSORIES

1468940 EN-Car U
3444504 Vacuum electrodes Ø 90 mm, set of 2
3444506 Sponges Ø 95 mm, set of 4
(for vacuum electrodes Ø 90 mm)

TECHNICAL SPECIFICATIONS

Vacuum: continuous and pulsed
Mains voltage: 220-240 V ± 10% (50/60 Hz)
Current consumption: max. 0.13 A (at 230 V)
Dimensions (wxdxh): 35x36x11 cm
Weight: 5.7 kg

1468940 **3444112** **3444507** **3444508** **3444503** **3444504** **3444505** **3444506**

CE 0197

EN-STIM 4

4-Channel unit for electrotherapy

The 4 channels operate fully independently. This makes it possible to treat major muscle groups simultaneously or perform bilateral treatments at the same time (a left and right m. Quadriceps for example). This also means that this equipment is perfectly suited for sport and rehabilitation.

The EN-Stim 4 is a stimulation unit with 4 independent channels for muscle stimulation and pain control using TENS currents.

- Optimum control via the graphic, illuminated LCD
- Independent current channels
- Detachable support

ORDERING DATA

1416930 EN-Stim 4

STANDARD ACCESSORIES

9999403 EN-Trode 5x9 cm, 2 mm female, 2 sheets of 4 pcs.
1416752 Operating manual EN-Stim 4
3444121 Patient cable 2-core & 2 mm male plugs-light grey
3444290 Mains cable 230V-EUR
3444131 Adapter ENA 1524 100-240V (EN-Stim 4)
3444129 Rubber electrodes 6x8 cm, 2 mm female, 2x2 pc.
3444120 Patient cable 2-core & 2 mm male plugs-grey
3444119 Patient cable 2-core & 2 mm male plugs-purple
3444102 Patient cable 2-core & 2 mm male plugs-black
3444021 Strap 250x3 cm
3444020 Strap 100x3 cm
1460266 Moist pads for rubber electrode 6x8 cm, set of 4
1416761 Protocols EN-Stim 4

OPTIONAL ACCESSORIES

1497800 Remote control, 1-4 channels, for the EN-Stim 4
3444023 Strap 250x5 cm
3444022 Strap 100x5 cm
3444056 EN-Trode Ø 3,2 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444135 EN-Trode Ø 5,0 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444057 EN-Trode 5x5 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444058 EN-Trode 5x9 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444146 EN-Trode 5x10 cm, double lead, packing of 10 sheets of 2 pcs.
3444128 Rubber electrodes 4x6 cm, 2 mm female, set of 2
3444130 Rubber electrodes 8x12 cm, 2 mm female, set of 2
1460273 Moist pads for rubber electrode 4x6 cm, set of 4
1460275 Moist pads for rubber electrode 8x12 cm, set of 4
1480800 Electrode holder for 1480801
1480801 Point electrode Ø 5 mm, 4 mm female (in combination with 2523523)

TECHNICAL SPECIFICATIONS

Phase duration:	10-1000 µs
Pulse frequency:	1-200 Hz
Frequency modulation:	0-180 Hz
Pre-programmed protocols:	39
Programmable positions:	100, single and sequential programs
Type adapter:	ENA-1524
Mains voltage:	100-240 Volt ± 10% (50/60Hz)
Dimensions (wxdxh):	22x20x20 cm
Weight:	1,8 kg

1497800 **3444120** **3444121** **3444119** **3444102** **3444128** **3444129** **3444130** **1460273** **1460266** **1460275** **1480800** **1480801**

3444020 **3444021** **3444022** **3444023** **3444056** **3444135** **3444057** **3444058** **3444146**

CE 0197

TENSMED

TensMed S84

With the TensMed S84 large muscle groups can be treated simultaneously, or bilateral treatments can be given simultaneously, (for instance a left and right m. Quadriceps). This makes the machine ideal for sport and rehabilitation. The TensMed S84 is a 4-channel muscle stimulation and pain relief device with optimum operation via the graphical, backlit LCD screen.

- 28 pre-programmed positions
- 5 programmable positions (that can be set in three stages)
- High intensity -CC
- High quality patient cables
- Operating manual includes practical treatment tips

ORDERING DATA

1427980 TensMed S84

STANDARD ACCESSORIES

3444325 Battery charger for TensMed S84
3444330 Batterypack for TensMed S84
3444220 Cableset TensMed S84 (4 Cables)
3444344 Case for TensMed S84
3444345 Clip for TensMed S84
1427781 User manual TensMed S84
xxx EN-Trode 5x5 cm, 2 mm female, 1 sheet of 4 pcs.

OPTIONAL ACCESSORIES

3444056 EN-Trode Ø 3,2 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444135 EN-Trode Ø 5,0 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444057 EN-Trode 5x5 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444146 EN-Trode 5x10 cm, double lead, packing of 10 sheets of 2 pcs.

3444220 **3444325** **3444330**

3444056 **3444135** **3444057** **3444146**

CE 0197

TensMed S82 & P82

The TensMed S82 is a professional device for muscle stimulation and pain relief. TENS (Transcutaneous Electrical Nerve Stimulation) is an effective method for pain relief and muscle stimulation. The TensMed P82 is the result of developments in the field of pain relief with TENS and gives the patient control over chronic pain. The use of pain-relieving medicines can be reduced or sometimes completely stopped. TENS treatments are safe, have no side-effects and are non-addictive. The TensMed P82 is a dual-channel device with a clearly legible LCD screen.

The TensMed S82 is the ultimate choice for the professional treatment of muscle stimulation and pain relief. The device can treat chronic pain, patients recovering from a traumatic condition, immobilisation, and improve posture and stabilisation of the knee joint. The TensMed S82 is a dual-channel device with a clearly readable LCD screen.

ORDERING DATA

1427960 TensMed P82
1427970 TensMed S82

STANDARD ACCESSORIES

1427771 User manual TensMed P82 & S82-English
3444201 Cableset TensMed P82 & S82 (2 cables)
3444334 Case for TensMed P82 & S82
xxx EN-Trode 5x5 cm, 2 mm female, 1 sheet of 4 pcs.

OPTIONAL ACCESSORIES

3444332 Handswitch TensMed S82
3444056 EN-Trode Ø 3,2 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444135 EN-Trode Ø 5,0 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444057 EN-Trode 5x5 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444146 EN-Trode 5x10 cm, double lead, packing of 10 sheets of 2 pcs.

TECHNICAL SPECIFICATIONS

Number of channels:	2 (non-independent)
Constant current:	up to a resistance of 1000 ohm
Stimulation current/channel:	0-99,5 mA
Waveform:	symmetrical biphasic pulse, 100% compensated
Number of preset programs:	TensMed S82: 28 TensMed P82: 5
Number of custom programs:	5 (PP1-PP5)
Stimulation forms:	Conventional, Burst, Modulated frequency/pulse duration, Mixed frequency, Alternated modulated pulse duration, Intermittent
Max pulse duration:	400 µs
Max frequency:	120 Hz
Timer	1 to 99 min./Off
Power source:	2x1.5 V AA non-rechargeable or 2x1.2 V AA rechargeable batteries
Current consumption for 1 channel:	80 Hz, 30 mA 150 mA
r.m.s. max/channel:	31 mA
Size (wxdxh):	120x50x30 mm
Weight:	approx. 180 g

3444332 **3444056** **3444135** **3444057** **3444146** **3444201**

CE 0197

MYOMED 632V

Unit for EMG-feedback, pressure feedback, electrotherapy and electrodiagnostics

The myofeedback unit is provided with a separate part for myofeedback, pressure feedback and combination with electrotherapy. Several surface- and cavity electrodes can be connected. This makes the unit extremely suitable for all kind of exercise- and relaxation therapies including Pelvic-floor re-education.

EMG-feedback

At EMG-feedback, the body's own electrical muscle activity is registered by means of a surface or cavity electrode. The results are submitted to the therapist and patient. This feedback is visual and/or auditive. For the visual feedback you can choose from different clear reproductions. For the auditive feedback you can choose from proportional reproduction, reproduction depending on a threshold or reproduction of the rough EMG-signal.

Pressure-feedback

At pressure-feedback, pressure changes are measured by means of a cavity electrode. These pressure changes are the result of contractions of the Pelvic-floor muscles. Feedback of the information to the therapist and patient is submitted in the same way as described above.

Electrotherapy

For the application of electrotherapy you can choose from; electrotherapy via 2 current channels or electrotherapy via the EMG channel. This way the therapist can directly check the results of the electrostimulation with EMG-feedback and make alterations if necessary. The different possibilities for the combination of EMG-feedback and electrostimulation are: alternating or depending on a set threshold.

V for vacuum

The Myomed 632V combines the complete unit for electrotherapy, the Myomed 632 with a vacuum unit. This vacuum unit is a whisper quiet suction wave device with the possibility of applying eight vacuum electrodes.
The suction power can be set across a broad range and can be applied either continuously or pulsed. A regulator system lets the pump only work when the vacuum has fallen below a certain minimum.

The vacuum electrodes are quick and easy to attach. They fit fully and comfortably to the body's surface. The electrode positioning is straightforward and easy and you also ensure good contact across the full surface of the electrode. This unit can be extended by means of functional modules. See page 13 for a more extensive explication and ordering data.

- 2-channel EMG-feedback
- 1-channel pressure-feedback
- 3 Different feedback sessions; continuously, work/rest and template
- EMG- or pressure signal graphically reproduced with adjustable sensibility and time scale
- Continuous reproduction of the EMG- or pressure value
- Combined application of EMG-feedback with electrotherapy
- Combined application of EMG- with pressure-feedback
- Special cluster for analysis of the EMG- and pressure measurements
- Several surface- and cavity electrodes

Product availability expected as of mid 2009.

ORDERING DATA

1600965 Myomed 632
1600966 Myomed 632 X
1600967 Myomed 632 U
1600968 Myomed 632 UX
1600970 Myomed 632V
1600971 Myomed 632V X
1600972 Myomed 632V U
1600973 Myomed 632V UX

STANDARD ACCESSORIES

3444508 Vacuum electrode cable black, 2x
1600781 Addendum User manual 6-serie Myomed 632
3444673 EMG Cable 6-series
3444674 Cable for reference electrode for EMG-6-series
1600780 Addendum User manual 6-serie Myomed 632-Dutch
3444078 Dummy plug
1460266 Moist pads for rubber electrode 6x8 cm, set of 4
3444507 Vacuum electrode cable red, 2x
3444505 Sponges Ø 65 mm, set of 4 (for vacuum electrodes Ø 60 mm)
3444503 Vacuum electrodes Ø 60 mm, set of 2x2
3444290 Mains cable 230V-EUR
3444129 Rubber electrodes 6x8 cm, 2 mm female, 2x2 pc.
3444208 Patient cable 2-core & 2 mm male plugs-black
3444209 Patient cable 2-core & 2 mm male plugs-purple
3444021 Strap 250x3 cm
3444020 Strap 100x3 cm

OPTIONAL ACCESSORIES

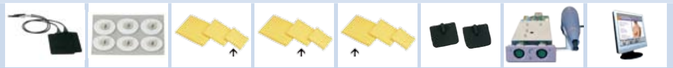
1600820 EN-Point
3444667 Snap-connector, 2 mm female, 3 pcs
3444302 Pregelled disposable electrodes, 25 pcs
3444023 Strap 250x5 cm
3444022 Strap 100x5 cm
3444117 Anal electrode with fixed cable, 2 mm female plug, to be used with cable 3444653
3444043 Anal pressure sensor CD
3444118 Vaginal electrode 2 mm Evolys, with cable
3444042 Vaginal pressure sensor CD, 6 pcs
3444048 Connecting cable for vaginal pressure probe, incl. air-inlet and syringe
3444045 Connecting cable for anal pressure probe 3444043
3444044 Connecting hose for vaginal pressure sensor
3444042 Vaginal pressure sensor CD, 6 pcs
3444056 EN-Trode Ø 3,2 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444135 EN-Trode Ø 5,0 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444057 EN-Trode 5x5 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444058 EN-Trode 5x9 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444146 EN-Trode 5x10 cm, double lead, packing of 10 sheets of 2 pcs.
3444128 Rubber electrodes 4x6 cm, 2 mm female, set of 2
3444129 Rubber electrodes 6x8 cm, 2 mm female, 2 pc.
3444130 Rubber electrodes 8x12 cm, 2 mm female, set of 2
3444148 Pregelled disposable electrodes oval 23x28 mm, 24 pcs
1460273 Moist pads for rubber electrode 4x6 cm, set of 4
1460266 Moist pads for rubber electrode 6x8 cm, set of 4
1460275 Moist pads for rubber electrode 8x12 cm, set of 4
3444380 Silicon electrode 5x5 cm TENS
1605950 6-series module ultrasound function
1607960 6-series module for remote LCD display function

TECHNICAL SPECIFICATIONS

EMG-feedback channels:	2, independent
Pressure-feedback:	1
Combination EMG/pressure-feedback:	yes (1 channel EMG, 1 channel pressure)
Measurement range EMG:	4-10.000 µV and logarithmically
Measurement range pressure:	0-360 hPa
Current channels:	2, independent, fully galvanically isolated
Current types:	16 current types-36 variants
Programmable positions:	unlimited
Pre-programmed programmes:	60
Number of vacuum electrode connections:	4
Supply voltage:	100-240 V ± 10% (50/60 Hz)
Dimensions (wxdxh):	39x37x24 cm
Weight:	6.2 kg

1600820 **3444302** **3444667** **3444673** **3444020** **3444021** **3444022** **3444023** **3444208** **3444209** **3444117** **3444043** **3444118** **3444042**

3444048 **3444045** **3444044** **3444503** **3444505** **3444507** **3444508** **3444056** **3444135** **3444057** **3444058** **3444146** **3444128** **3444129**



3444130 **3444148** **1460273** **1460266** **1460275** **3444380** **1605950** **1607960**

MYOMED 134

Unit for EMG-feedback, pressure feedback, electrotherapy and electrodiagnostics

Unit for EMG-feedback and electrotherapy
Biofeedback is a training technique that teaches patients how to improve their health and physical performance by responding to signals from their own body.

Over the years the use of EMG recording has increased, especially for the relatively 'new' indications such as pelvic floor disorders and RSI prevention in VDU users. Surface electromyography is another excellent addition to the stock armoury of the physiotherapist in general practice.

Thanks to the Myomed 134, Enraf-Nonius has made it possible to use biofeedback in combination with electrotherapy.

The Myomed 134 acts like a 'stethoscope for the muscles' by showing how the patient is responding to the physiotherapist's instructions and corrective tips. The Myomed 134 gives you an especially accurate source of information that shows the precise effects of your physiotherapeutic procedures.

Biofeedback, whether or not used in combination with electrotherapy, is an effective form of therapy which has been developed as a successful alternative to surgery. It has proven to be especially successful at improving the quality of life and a feeling of freedom of incontinence patients. Being a non-invasive treatment, it's also extremely suitable for use with the elderly.

EMG on the move
Thanks to its compact size and use of batteries, the Myomed 134 can be used for both measurement and exercise on the move.
To store measurement data you can equip the Myomed 134 with a multimedia card: the results can later be read out via the PC.

- a complete device for EMG feedback, pressure feedback and electrotherapy (2-channel EMG, 2-channel TENS, 1-channel pressure feedback) - battery- powered, so can be used on the move during both diagnosis and treatment
- optional multimedia card for storing measurement results
- easy for patients to operate
- wide measurement range (0.28 µV - 150 mV) allows measurement of both large and small muscles
- connection to PC possible using standard software package
- parameters definable in the PC
- analysis of EMG/pressure measurements via PC
- excellent for sports rehabilitation

ORDERING DATA
1437910 Myomed 134 100-240V

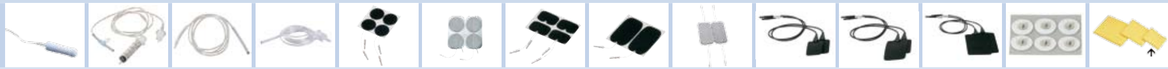
STANDARD ACCESSORIES
3444667 Snap-connector, 2 mm female, 3 pcs
3444114 P.C. cable for Myomed 134
1437800 P.C. Software for Myomed 134
3444172 Battery package for Myomed 134
3444173 Cable for reference electrode for the Myomed 134
1437752 Operating manual Myomed 134
9999409 Pregelled disposable electrodes oval 23x28 mm, 6 pcs
3444119 Patient cable 2-core & 2 mm male plugs - purple
3444102 Patient cable 2-core & 2 mm male plugs - black
3444131 Adapter ENA 1524 100-240V (EN-Stim 4)
3444290 Mains cable 230V - EUR

OPTIONAL ACCESSORIES
3444061 Bag for Endomed and Sonopuls 1-serie, black
3444171 Multimedia card
3444302 Pregelled disposable electrodes, 25 pcs
3444023 Strap 250x5 cm
3444021 Strap 250x3 cm
3444020 Strap 100x3 cm
3444022 Strap 100x5 cm
3444117 Anal electrode with fixed cable, 2 mm female plug, to be used with cable 3444653
3444043 Anal pressure sensor CD
3444118 Vaginal electrode 2 mm Evolys, with cable
3444042 Vaginal pressure sensor CD, 6 pcs
3444048 Connecting cable for vaginal pressure probe, incl. air-inlet and syringe
3444045 Connecting cable for anal pressure probe 3444043
3444044 Connecting hose for vaginal pressure sensor 3444042
3444056 EN-Trode Ø 3,2 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444135 EN-Trode Ø 5,0 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444057 EN-Trode 5x5 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444058 EN-Trode 5x9 cm, 2 mm female, packing of 10 sheets of 4 pcs.
3444146 EN-Trode 5x10 cm, double lead, packing of 10 sheets of 2 pcs.
3444128 Rubber electrodes 4x6 cm, 2 mm female, set of 2
3444129 Rubber electrodes 6x8 cm, 2 mm female, 2 pc.
3444130 Rubber electrodes 8x12 cm, 2 mm female, set of 2
3444148 Pregelled disposable electrodes oval 23x28 mm, 24 pcs
1460273 Moist pads for rubber electrode 4x6 cm, set of 4
1460266 Moist pads for rubber electrode 6x8 cm, set of 4
1460275 Moist pads for rubber electrode 8x12 cm, set of 4
1480800 Electrode holder for 1480801
1480801 Pointelectrode Ø 5 mm, 4 mm female (in combination with 2523523)
3444380 Silicon electrode 5x5 cm TENS

TECHNICAL SPECIFICATIONS

EMG channels:	2
EMG sensibility:	0,28 µV–300 mV
Pressure channels:	1
Pressure sensibility:	0-400 cm H2O
Current type:	alternating current
Phase duration:	10-450 µs
Type mains supply:	ENA-1524
Mains voltage:	100-240 V ± 10% (50/60 Hz)
Output:	15 VDC/1,6 A

3444171 **3444302** **3444061** **3444020** **3444021** **3444022** **3444023** **3444667** **3444173** **3444119** **3444102** **3444117** **3444043** **3444118**



3444042 **3444048** **3444045** **3444044** **3444056** **3444135** **3444057** **3444058** **3444146** **3444128** **3444129** **3444130** **3444148** **1460273**

1460266 **1460275** **1480800** **1480801** **3444380**

CE 0197

Ultrasound therapy TENS
Electrotherapy **Lymph drainage and presso therapy**
Laser therapy Traction **Biofeedback**
Shortwave **Microwave Thermo therapy**
Manual therapy **Vibration training**
Cardiovascular Training **Whole Body**
Medical Training
Freestyle Training **Strength Training**

ENDOLASER 422

Unit for low level laser therapy

Effective treatment at the speed of light!
The Endolaser 422 is an advanced and modern designed unit for laser therapy with interchangeable laser probes.

Laser therapy, also known as photobiomodulation, low level laser therapy (LLLT), cold laser therapy and laser biostimulation, is an effective method for:

- Pain management
- Wound healing
- Soft tissue injury treatment
- Nerve regeneration
- Skin treatment (esp. for Acne)
- Cosmetic regeneration

Laser is applied to the anatomical region of interest by means of a diode probe. This application can be static and very localized or dynamic for larger regions. In general a treatment only takes a few minutes. This effectiveness and the short application time make laser therapy with the Endolaser 422 a valuable part of a complete treatment session.

Standard with 2 channels
The Endolaser 422 is a 2-channel unit. This allows for simultaneous treatment of two segments within a patient or even simultaneous treatment of two patients.

Dual probe laser therapy
Another method that rapidly gains popularity is the simultaneous treatment of one lesion with both a diffuse application in the peripheral area and a very localized, intense application at the epicentre of the lesion. This central-peripheral dual probe laser therapy approach is extremely promising in several application areas.

Several probes available
For treatment of small surfaces with monolaser there are diodes of 25, 100 and 500 mW. For a larger area it is possible to use a cluster of 4 diodes of 100 mW each-making it a 400 mW diode in total. The probes are interchangeable which has a positive influence on the total treatment time.

Simple user interface
The unit is software operated. A treatment program can be created or adjusted in a few steps. By means of buttons and knobs the level of energy can be adjusted simply and accurately during treatment. After each adjustment of the protocol the dose is calculated instantly.

The Endolaser 422 is also provided with an extensive number of treatment protocols for the most common treatment modalities of laser therapy (over 80 protocols at the time of publication). Besides these protocols you can also create your own programs which makes the Endolaser 422 a very effective tool in your practice.

Safe
The Endolaser 422 is provided with a laser-test that allows for easy verification of the laser probe. This assures proper functioning of the machine and guarantees safe and accurate application of the laser energy to your patients.

Of course the Endolaser 422 is standard equipped with two pairs of safety glasses, one each for the therapist and for the patient, to protect the retina from the intense energy of the laser beam.

Treatment at the speed of light
The Endolaser 422 is a valuable addition to your practice allowing for effective results in short treatment times.

Being an Enraf-Nonius product, the high quality of the Endolaser 422 assures years of proper functioning and good design.

With the Endolaser 422 you can treat your patients and clients at the speed of light!

ORDERING DATA
1422911 Endolaser 422

STANDARD ACCESSORIES
3444290 Mains cable 230V-EUR
1422815 Protective goggles Endolaser 422-2x
1422750 Operating manual Endolaser 422

OPTIONAL ACCESSORIES
3444814 Protective goggles Endolaser 422-Extra quality
1422816 Laserprobe 25 mW, pulsed laser diode
1422817 Laserprobe 100 mW, pulsed laser diode,
1422818 Laserprobe 500 mW, continuous laser diode
1422819 Laser clusterprobe 400 mW, pulsed laser diode

TECHNICAL SPECIFICATIONS

Mains voltage:	230 Vac 50-60Hz ±15% 115 Vac 50-60Hz ±15%
Max. Power consumption:	15 VA
Double fuse protection:	250 mA Rit 5x20 mm
Plug for Interlock/safety key (contacts normally closed)	
Backlit LCD Display, to visualize and control operating parameters:	6 contact DIN pluggraphic 240x128 pixel
Programmable treatment time:	up to 60 minutes
Diode Laser Wave length for 25, 100, 400mW pulse diode:	905 nm
Diode Laser Wave length for 500 mW continuous laser diode:	808 nm
Laser classification according to EN-60825-1:	3B
MPE (Maximum permissible exposure):	5032.06 J . m -2
AEL (Accessible emission limit):	77.1 mW (class 3B limit)
Divergence:	107 mrad
NOHD (Nominal ocular hazard area) direct light:	2.89 meters
NOHD diffused light:	0.00 meter
IR radiation sensor for external laserprobe:	On front panel
Programmable impulse frequency:	10-10.000 Hz
Duty Cycle, only available with continuous laser diodes:	10-9900 Hz
Independent output channels:	2
Pre-programmed protocols:	82
Free programmable positions:	50
Plastic desktop container-external dimensions (lxhxd):	29x28x11,5 cm
Weight of machine body:	3,2 kg

1422816 **1422817** **1422818** **1422819**

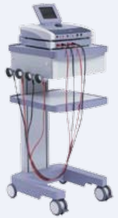
CE 0197

EN-CAR U

The Universal Equipment Trolley

The EN-Car U is an exceptionally stable equipment trolley on which you can place your Enraf-Nonius therapy units and all the accessories. The EN-Car U is extremely well suited for the Endomed 682(V), 684(V) and Sonopuls 692(V), as well as for the 4-series equipment-that's why we call it "Universal"! With the EN-Car U you are always mobile, whilst having everything for your treatments within easy reach. The EN-Car U stands out due to its stability. Move it-shake it-turn it, the EN-Car U is as solid as a rock. This sturdiness is realized by good design that makes ample use of solid construction techniques, but also because of the use of two castors with brakes.

As a console next to the treatment couch you will find the EN-Car U an indispensable tool! With two trays that can easily be adjusted to your preferred height the EN-Car U will be your best mate in the treatment room.



Due to these features the equipment is always at the ideal working height, both in standing and in sitting position, so that the parameters on the display of the electrotherapy-units are always clearly visible at any time. All wiring and cables can be neatly hidden in the hollow frame. The EN-Car U comes standard with two trays (one of them including an auto-closing drawer). With the optional vacuum-cup holder you have a convenient and neat storage rack for all the cups and the remote control.

The EN-Car U is your companion for any piece of Enraf-Nonius equipment. For laser, ultrasound, biofeedback or electrotherapy, with the EN-Car U you have it all close at hand.

- Ample space for every therapy unit and all accessories
- Both trays can be individually adjusted in height
- Nice optional storage for vacuum electrodes and remote control
- Easily and safely movable with 4 independent rotating wheels
- Two castors with brakes
- Hollow frame for cables
- Two practical storage trays
- One convenient large drawer

ORDERING DATA
1468940 EN-Car U

OPTIONAL ACCESSORIES
1468932 Holder for remote control and vacuum-cups on EN-Car U

1468932

ELTRAC 471

Traction unit for lumbar and cervical traction

The Eltrac 471 is a unique combination of computer technology, functional design and operational convenience. The unit is ideal for lumbar and cervical traction. Continuous and intermittent traction.

For continuous and intermittent, cervical and lumbar traction

The traction force of the Eltrac 471 can be set to continuous or intermittent. A special control must be pressed for traction forces above 200 N (appr. 20 kg). This safety system prevents the accidental application of unacceptable high traction forces during, for instance, cervical traction.

Safety

The control panel shows various parameters which can be selected with fingertips controls like traction force, base force, base hold time and treatment time. The traction force is electronically measured and constantly monitored. A microcomputer compares the actual readings with the set values and immediately eliminates any differences. Patient movement is recorded and does not influence the traction force. The patient can gradually reduce the traction power to the minimum value (15 N) by simply pressing the safety stop switch.

- Continuous and intermittent traction
- Traction forces up to 900 N (appr. 90 kg)
- Safety control for traction forces above 200 N (appr. 20 kg)
- Constant electronical monitoring of the traction force

ORDERING DATA

1471901 Eltrac 471 230V/50-60Hz

STANDARD ACCESSORIES

3444291 Mains cable 115V-USA
1471751 Operating manual Eltrac 471
3444290 Mains cable 230V-EUR
1471806 Nylon cord 170 cm with carabine hook, for Eltrac 471
1471801 Fixing knobs, set of 4, for Eltrac 471
1471800 Patient stop switch for Eltrac 471

OPTIONAL ACCESSORIES

5100614 Manumed Special Traction 4-section (type 926)
5100613 Manumed Special Traction 4-section (type 916)
3450500 Manumed Special Traction 2-section, back, fixed height (type 004)
1471807 Remote control for Eltrac 471
3013014 Flexistool grey, with separate height adjustment for each leg
3447624 Padded neck harness, complete with spreader bar
1471802 Pulley for mobile traction frame (2 required)
3445006 Clamp for fitting straps (2 required)
3445022 Pelvic belt for Manumed Traction
3445021 Thoracic belt for Manumed Traction
3445512 Mobile traction frame for cervical traction
1471805 Wall bar bracket, for mounting of Eltrac 471 to wall bars
3445038 Traction frame for Manumed Optimal and Special Traction H/L (width 430mm)
3445020 Traction frame Manumed Special Traction 3450500 (width 480mm)
9999130 Stools and pillows

TECHNICAL SPECIFICATIONS

Types of therapy: static traction, intermittent traction
Mains voltage: 230 V ± 15% (50/60 Hz)
Max. power consumption: 0.22A (230 V)
Dimensions: 302x262x155 mm
Weight: 12 kg

5100614

5100613

3450500

1471807

3013014

3447624

1471802

3445006

3445022

3445021

3445512

1471805

3445038

3445020

ENDOPRESS 442

The EndoPress 442 is the product for lymph drainage

Lymph drainage, also called presso therapy, means stimulating the lymph knobs and the lymph circulation system through a very specific subtle massage, which results in the discharge of moisture and hence the waste products that are located in and between the cells are removed.

Lymph drainage or presso therapy gets a new image with this mobile model. The EndoPress 442 has 2 connections for the 9 segments leg compression garment or the 7 segments arm compression garment. The extremely quiet and powerful motor sees to it that the set pressure is realised quickly and accurately.

The EndoPress 442 is equipped with several programmes, which offer a great variation in the possible sequence in which the segments are raised to the set pressure values. This approach makes it possible to apply various lymph drainage techniques with the EndoPress 442. This is exactly what makes the EndoPress 442 so unique.

The pressure can be set quickly and exactly at a value between 20-150 mmHg for the entire compression garment or even for each individual segment of the garment in question. The application on a segment level makes it possible to not treat any painful places or, if required, set a very low pressure.

The EndoPress 442 is an unique universal product for the treatment of moisture accumulation. This effective treatment method offers maximum possible comfort to the patient because of the pressure that can be set for each segment. For the therapist the low-noise EndoPress 442 is an enrichment in the treatment room to replace the labour-intensive manual therapy. The EndoPress 442 has a stable and robust housing, which is mobile and can therefore be used where the therapist thinks it is best suitable. The operation is very simple through the graphic LCD screen.

- The pressure is adjustable for each segment
- A silent and powerful compressor
- Simple operation through graphic LCD-screen
- More than 15 pre-programmed sequences
- 50 freely programmable sequences
- Leg and arm compression garments that can be set for each individual segment
- Offers great comfort to patient and therapist

ORDERING DATA

1442911 EndoPress 442-230 VAC

STANDARD ACCESSORIES

3444661 Mains cable 115V-UL-CSA
1442755 Operation manual EndoPress 442
1442754 Operation manual EndoPress 442
1442753 Operation manual EndoPress 442
1442751 Operation manual EndoPress 442
1442750 Operation manual EndoPress 442
1442010 Dummy block EndoPress 442
3444298 Mains cable 230V-EUR
1442752 Operation manual EndoPress 442

OPTIONAL ACCESSORIES

1442800 9 segments leg gaskets
1442801 7 segments arm gaskets

TECHNICAL SPECIFICATIONS

Mains voltage:	230 VAC 50-60 Hz ±15% 115 VAC 50-60 Hz ±15%
Maximum power consumption:	220 VA
LCD display graphics:	240x128 pixels
Pressure setting:	20-150 mbar
Programmable treatment time:	increasing to 30 minutes
Output connectors (parallel):	2
Pre-programmed protocols:	>15
Freely programmable protocols:	50
Dimensions (wxdxh):	39x40x93 cm
Weight:	approx. 45kg

1442010

1442800

1442801

CE 0197

CURAPULS 670

Top model for pulsed shortwave therapy

Two outlets
The Curapuls 670 is provided with two outlets so that two electrodes can be used simultaneously. Both outlets have independently adjustable pulse width and peak (average) power.

A-thermal effects
Usually the Curapuls 670 is used a-thermally. The comparatively high peak power has a strong stimulative effect on the biological processes. Consequently, it is very well-suited for the treatment of acute conditions.

Thermal effects
Thermal effects originating from long pulse times and high pulse repetition frequencies make the Curapuls 670 also suitable for thermal treatments.

User-friendly and functional
The large illuminated screen displays the parameters in an organised fashion. The parameters remain visible during treatment. The Curapuls 670 logically orders more than 50 of the most universal indications. After selection of the desired indication, the parameters for treatment are automatically set. Frequently used protocols can be stored into the memory.

Three unique circuplodes
Three special induction-electrodes have been developed for the Curapuls 670. They are provided with a Faraday screen to assure a low superficial thermal load. Because of this, no energy is absorbed into the superficial fatty tissues resulting in an efficient deep treatment.

- Adjustable peak power (maximum 200 Watt)
- Adjustable pulse width and frequency
- Conveniently arranged display
- 50 Pre-programmed treatment suggestions
- 25 Free programmable memory positions
- Special induction-electrodes
- Power indicator
- Adjustable electrode arms

ORDERING DATA

1403932 Curapuls 670 230V/50-60Hz

STANDARD ACCESSORIES

3444661 Mains cable 115V-UL-CSA
1403751 Operating manual Curapuls 670
3444298 Mains cable 230V-EUR
1462484 Circuplode Ø 140 mm, Curapuls 670
2994090 Cable clamp for Curapuls 670
1462540 Electrode arm white, for Curapuls

OPTIONAL ACCESSORIES

1462521 Circuplode-E
1462514 Circuplode Ø 90 mm
3441401 Treatment couch, clear lacquered wood, 190x60x75 cm
3441337 Treatment chair, clear lacquered wood
3441338 Footrest, clear lacquered wood
1480803 Earth potential-equalization cable 5 m

TECHNICAL SPECIFICATIONS

Frequency:	27.12 MHz (± 0.6%)
Channels:	2
Pulse power:	0-200 W (± 20%) into 50 ohm
Average power:	0-64 W (± 20%) into 50 ohm
Mains voltage:	220-240 V ± 10% (50/60 Hz)
Power consumption:	max. 1.6 A (230 V)
Dimensions (wxdxh):	39x40x93 cm
Weight (unit):	approx. 45 kg (excluding arm)
Electrode arm:	approx. 2.5 kg

1462484 **1462514** **1462514** **3441401** **3441337** **3441338** **1480803**

CURAPULS 970

Unit for continuous and pulsed shortwave therapy

Continuous and pulsed output

The continuously adjustable intensity and the output of 400 Watt provide optimum application possibilities. Continuous shortwave therapy increases the circulation and stimulates the metabolism. The pulsed peak power can be set to a maximum of 1000 Watts. The related average power is, however, much lower. Biological processes, which should not be heat-treated, can therefore be treated a-thermally.

The electrodes

An electrical field can be created with the disc electrodes or the rubber electrodes, depending on the shape and size of the body part to be treated. A choice can be made from a wide range of capacitive electrodes. A magnetic field can be created with the Circuplode or with the Flexiplode. The treatment planes of the Flexiplode can be adjusted to fit the body part.

Striking effects

Besides the well known effects of heat therapy with continuous radiation, the unit's pulsed mode will stimulate wound healing, oedema- and haematoma absorption, pain reduction and stimulation of the peripheral circulation.

Easy to move

Four large wheels make the Curapuls 970 easy to move within your practice. Two wheels can be locked to immobilise the unit.

- Continuous and pulsed
- Conveniently arranged display
- Wide range of electrodes
- Four large castors
- Adjustable electrode arms

ORDERING DATA

1419942 Curapuls 970 230V/50-60Hz

STANDARD ACCESSORIES

1419751 Operating manual Curapuls 970
3441306 Neon checklight for Curapuls 970 and Radarmed
1462531 Disc (Schliephake) electrode Ø 130 mm for Curapuls 970, 2x
1462414 Cable clamp for Curapuls 970, 2x
1462416 Electrode cable for Curapuls 970, 2x
1462540 Electrode arm white, for Curapuls, 2x

OPTIONAL ACCESSORIES

1462417 Two-way plug, for multi-electrode technique, for Curapuls 970
1462443 Adapter for Circuplode Ø 140 mm 1462453, for Curapuls 970
1462453 Circuplode Ø 140 mm, Curapuls 970
1462423 Flexiplode for Curapuls 970
1462533 Disc (Schliephake) electrode Ø 42 mm for Curapuls 970
1462532 Disc (Schliephake) electrode Ø 85 mm, for Curapuls 970
1462416 Electrode cable for Curapuls 970
1462531 Disc (Schliephake) electrode Ø 130 mm for Curapuls 970
3441302 Flexible rubber electrode 15x25 cm, for Curapuls 970
3441301 Flexible rubber electrode 12x12 cm, for Curapuls 970
3441300 Flexible rubber electrode 9,5x10 cm, for Curapuls 970
3441346 Felt spacer 16x30 cm, for flexible electrode 15x25 cm (3441302) , for Curapuls 970
3441347 Felt spacer 13x17 cm, for flexible electrode 12x12 cm (3441301), for Curapuls 970
3441356 Felt spacer 10,5x15 cm, for flexible electrode 9,5x10 cm (3441300), for Curapuls 970
3441401 Treatment couch, clear lacquered wood, 190x60x75 cm
3441337 Treatment chair, clear lacquered wood
3441338 Footrest, clear lacquered wood
1480803 Earth potential-equalization cable 5 m

TECHNICAL SPECIFICATIONS

Generator frequency:	27.12 MHz, ± 0.6%
Output power:	continuous HF max. 400 W, pulsed HF max. 1000 W (peak)
Pulse duration:	ca. 400 µs
Pulse repetition frequency:	15-200 Hz adjustable in 10 steps
Mains supply:	230-240 V / 50 Hz
Mains voltage variation:	approx. ± 10%
Current consumption:	approx. 6 A (at 230 V)
Dimensions (wxdxh, without arms):	56x43x92.5 cm
Length electrode arms:	93 cm
Weight:	ca. 80 kg

1462417

1462443

1462453

462423

1462533

1462532

1462531

1462443

1462416

3441302

3441301

3441300

3441346

3441347

3441356

3441401

3441337

3441338

1480803

RADARMED 650+

Unit for microwave therapy

The Radarmed 650+ is a unit for microwave therapy. This unit for heat therapy offers a choice from continuous or pulsed output.

Continuous or pulsed output
A choice can be made from a continuous output of maximum 250 Watt or pulsed output with a maximum of 1500 Watt which makes it possible to heat up deeper lying tissues with a low dosage.

Effortless transition between continuous and pulsed therapy
During the course of treatment you can easily switch from continuous to pulsed output. In the meantime the electronic system keeps the effective dosage constant.

Simple operation and clear reproduction
Dosage and treatment time are digitally displayed on screen. They are easy to set with the push buttons. The different radiators can easily be attached to the adjustable arm by means of a practical, quick coupling. The treatment starts as soon as the power is set. The unit automatically turns off and gives an audible signal when the treatment time ends.

- Continuous or pulsed output
- Effortless transition between continuous and pulsed therapy
- Simple operation and clear reproduction

STANDARD ACCESSORIES
1435750 Operating manual Radarmed 650+
3444298 Mains cable 230V-EUR
1409813 HF-cable 250 Watt, for Radarmed
3442039 Arm for radiator of the Radarmed

OPTIONAL ACCESSORIES
3441306 Neon checklight for Curapuls 970 and Radarmed
3442022 Protective goggles
1409812 Local field radiator Ø 17 cm for Radarmed
1409810 Large field radiator for Radarmed
1409811 Longitudinal field radiator for Radarmed
3441401 Treatment couch, clear lacquered wood, 190x60x75 cm
3441337 Treatment chair, clear lacquered wood
3441338 Footrest, clear lacquered wood
1480803 Earth for potential-equalization cable 5 m

TECHNICAL SPECIFICATIONS

Operating modes:	continuous and pulsed
Frequency:	2450 MHz ± 50 MHz
Mains voltage:	220-240 V ± 10% (50/60 Hz)
Power consumption:	1000 VA
Weight:	45 kg (including arm)
Dimensions (hxwxd, including castors):	93x39x49 cm

3441306 **3442022** **1409812** **1409810** **1409811** **3441401** **3441337** **3441338** **1480803**

CE 0197

RADARMED 950+

Unit for microwave therapy

The Radarmed 950+ is a unit for heat therapy. This unit for heat therapy offers a choice from continuous or pulsed output.

Continuous or pulsed output
A choice can be made from a continuous output of maximum 250 Watts or pulsed output with a maximum of 1500 Watts. Which makes it possible to heat up deeper lying tissues with a low dosage.

Effortless transition between continuous and pulsed therapy
During the course of treatment you can easily switch from continuous to pulsed output. In the meantime the electronic system keeps the effective dosage constant.

The LCD screen
User-friendliness and functionality are essential. The parameters are conveniently arranged on the illuminated display. The parameters are easily and swiftly installed by means of the central control and push buttons. The parameter settings remain visible on the display during treatment.

- Continuous or pulsed output
- Effortless transition between continuous and pulsed therapy
- The parameters are conveniently arranged on the illuminated display.
- The parameter settings remain visible on the display during treatment.
- Free memory for the storage of treatment protocols

ORDERING DATA
1435901 Radarmed 650+ 230V/50Hz
1435911 Radarmed 950+ 230V/50Hz

STANDARD ACCESSORIES
1435751 Operating manual Radarmed 950+
3444298 Mains cable 230V-EUR
1409813 HF-cable 250 Watt, for Radarmed
3442039 Arm for radiator of the Radarmed

OPTIONAL ACCESSORIES
3441306 Neon checklight for Curapuls 970 and Radarmed
3442022 Protective goggles
1409812 Local field radiator Ø 17 cm for Radarmed
1409810 Large field radiator for Radarmed
1409811 Longitudinal field radiator for Radarmed
3441401 Treatment couch, clear lacquered wood, 190x60x75 cm
3441337 Treatment chair, clear lacquered wood
3441338 Footrest, clear lacquered wood
1480803 Earth for potential-equalization cable 5 m

TECHNICAL SPECIFICATIONS

Operating modes:	continuous and pulsed
Frequency:	2450 MHz ± 50 MHz
HF power, continuous:	0-250 W at 50 Ohm
HF power, pulsed:	0-250 W with a fixed peak power of 1500 W, ± 30%
Programmable positions:	yes
Mains voltage:	220-240 V (± 10%)
Frequency:	50/60 Hz
Power consumption:	1000 VA
Weight:	45 kg (including arm)
Dimensions (hxwxd including castors):	93x39x49 cm

3441306 **3442022** **1409812** **1409810** **1409811** **3441401** **3441337** **3441338** **1480803**

CE 0197

CIRCUPLODE

The Circuplode is an advanced inductive electrode. It is provided with a Faraday screen that eliminates capacitive effects to give a virtually pure magnetic field.
This means that no energy is absorbed in superficial fatty tissues, so that optimum treatment of deeper-lying tissues is obtained.
This is in contrast to conventional inductive electrodes, in which the transfer of energy is limited by the capacitive currents in superficial (fatty) tissues.

For the Curapuls 670:

- Circuplode Ø 140 mm: for the treatment of larger body parts such as hip and shoulder joints
- Circuplode Ø 90 mm: for the treatment of small body parts such as wrist and ankle joints
- Circuplode-E: for the treatment of large oblong shaped body parts such as knee joints.

For the Curapuls 970:

- Circuplode Ø 140 mm: simple application (contact electrode)

ORDERING DATA

1462453 Circuplode Ø 140 mm, Curapuls 970
1462443 Adapter for Circuplode Ø 140 mm 1462453, for Curapuls 970
1462484 Circuplode Ø 140 mm, Curapuls 670
1462514 Circuplode Ø 90 mm
1462521 Circuplode-E

CE 0197

FLEXIPLODE

Induction electrodes are particularly well-suited for the treatment of deeper-lying tissues. The adjustable treatment planes of the Flexiplode ensure optimum adaptation to the body surface. The large surface totalling 412x225 mm enables treatment of larger body parts conveniently in one application.
The Flexiplode is an advanced inductive electrode. It is provided with a Faraday screen that eliminates capacitive effects to give a virtually pure magnetic field.
This means that no energy is absorbed in superficial fatty tissues, so that optimum treatment of deeper-lying tissues is obtained. This is in contrast to conventional inductive electrodes, in which the transfer of energy is limited by the capacitive currents in superficial (fatty) tissues.

The Flexiplode is made of ABS plastic, combining high durability with excellent electrical insulation. Strong self-locking hinges help to ensure a long working life.

- Adjustable treatment planes for adaptation to body surfaces
- Three sided coverage of extremities provides a homogeneous induction field
- Time saving application method

ORDERING DATA

1462423 Flexiplode for curapuls 970

STANDARD ACCESSORIES

1462751 Operating manual Flexiplode for Curapuls 970

CE 0197

ENRAF NONIUS
Partner for Life

Furniture for shortwave and microwave therapy

ORDERING DATA

3441337 Treatment chair, clear lacquered wood
3441401 Treatment couch, clear lacquered wood, 190x60x75 cm
3441338 Footrest, clear lacquered wood

STANDARD ACCESSORIES

1400743 Operating manual treatment couch, clear lacquered wood
1400744 Operating manual treatment chair, clear lacquered wood
1400745 Operating manual footrest, clear lacquered wood

ENRAF NONIUS
Partner for Life

CE 0197

Fangoheater

The compact design as table model makes the unit suitable to be used in any kind of practice. It is possible to process Paraligno as well as Parafango Battaglia in the heater. Because of the direct heating system, the Fango heater is highly suitable for sterilising paraffin (at 135 °C). Sterilising is only possible when Parafango Battaglia is used (Paraligno cannot stand these high temperatures). The Fango heater is glass wool isolated and is delivered including a splash cover with cold grip.

ORDERING DATA
1468904 Fangoheater

STANDARD ACCESSORIES
1468751 Operating manual fangoheater
3444290 Mains cable 230V-EUR

OPTIONAL ACCESSORIES
3448112 Paraffin wax, pure form, 25 kg
3448137 Parafoil, 40x60 cm, 1000 sheets
3448164 Paraligno, 5 kg
3448108 Parafango Battaglia, 12 kg

PARALIGNO
Paraligno is composed out of paraffin mixed with birch sawdust. It can be used for any packing size. Paraligno has a long term of heat development.

PARAFANGO BATTAGLIA
Parafango is composed out of paraffin mixed with fango (mud). It can be used for any packing size. Parafango has a long term of heat development. Frequently heating till 130° to 140°C for sterilisation does not harm the Parafango.

PARAFFIN
Pure form paraffin with a melting point of 48°-52°C.

Paraffin-bath

The Enraf-Nonius paraffin bath operates on the "au-bain-marie" principle. The paraffin is heated directly by the heat transferred from a heat-transfer liquid. As heat-transfer liquid you can use water or a special thermal-oil (13 ltr). The size of the bath makes it suitable for so-called dipping treatments. It is possible to heat Paraligno, Parafango and pure paraffin in this bath.

- Quicker heating
- More even heat distribution
- Practically no temperature fluctuations in the paraffin
- Mobile
- Stainless steel inner tank with splash cover
- Thermostatic temperature control (30-90 °C)
- Overheating safety mechanism

ORDERING DATA
3448162 Paraffin-bath 230V/50Hz
3448163 Paraffin-bath 115V/60Hz

STANDARD ACCESSORIES
1400005 Operating manual Paraffin bath

OPTIONAL ACCESSORIES
3448108 Parafango Battaglia, 12 kg
3448164 Paraligno, 5 kg
3448137 Parafoil, 40x60 cm, 1000 sheets
3448136 Heat-transfer liquid, 5 l
3448112 Paraffin wax, pure form, 25 kg

TECHNICAL SPECIFICATIONS
Temperature range: 30-90°C
Internal dimensions: 50x30x21 cm (30 l)
External dimensions: 58x32x50 cm (30 l)
Mains voltage: 230 V, 50/60 Hz
Power consumption: 2000 W (1760 W for the 115 V version)

3448136

Packheater

The Packheater is used for heating packs. The enamelled heater is standard delivered including base grid. The water temperature is accurately maintained by a thermostat at a pre-selected, constant value (50-95 °C).

- Table model
- Enamelled heater
- Thermostatic temperature control
- Content 29 litres
- Water temperature adjustable (50-95°C)

ORDERING DATA
3448191 Packheater 230V/50-60Hz

STANDARD ACCESSORIES
1400725 Operating manual packheater 3448191

OPTIONAL ACCESSORIES
3448135 Base grid, plastic-coated for Packheater 3448191
3448199 Rack, stainless steel for Packheater 3448191
3448132 Tongs made of wood of packs
3448166 Enno Moist 12x30 cm
3448167 Enno Moist 25x30 cm
3448281 Enno Moist 25x45 cm
3448283 Enno Moist 25x50 cm
3448282 Enno Moist 25x60 cm
3448169 Enno Moist oversize, 38x61 cm
3448168 Enno Moist neckmodel, 15x61 cm
3448311 Stadtholder Moorpacking 13x28 cm
3448310 Stadtholder Moorpacking 18x28 cm
3448312 Stadtholder Moorpacking 22x40 cm
3448313 Stadtholder Moorpacking 30x40 cm
3448314 Stadtholder Moorpacking neck-/schoulder model
3448209 Hot/Cold packs 30x38 cm, 2 pieces
3448208 Hot/Cold packs 13x30 cm, 6 pieces.
3448207 Hot/Cold packs 13x14 cm, 12 pieces
3448130 Towelling holder for 3 packs 3448208

TECHNICAL SPECIFICATIONS
Temperature range: 50-100°C
Tank capacity: 29 l
Mains voltage: 230 V (suitable for 220-240 V)
Power consumption: 700 W
Dimensions: height 42 cm, diameter 35 cm
Weight: 7 kg

3448135 **3448199** **3448132** **3448130**

ENNO MOIST
Cotton pack filled with volcanic mineral grains.

ORDERING DATA
3448166 Enno Moist 12x30 cm
3448167 Enno Moist 25x30 cm
3448281 Enno Moist 25x45 cm
3448283 Enno Moist 25x50 cm
3448282 Enno Moist 25x60 cm
3448169 Enno Moist oversize, 38x61 cm
3448168 Enno Moist neckmodel, 15x61 cm

HOT/COLD PACKS
Synthetic pack filled with gel.

ORDERING DATA
3448209 Hot/Cold packs 30x38 cm, 2 pieces
3448208 Hot/Cold packs 13x30 cm, 6 pieces.
3448207 Hot/Cold packs 13x14 cm, 12 pieces

STANDARD ACCESSORIES
1400735 Operating manual hot/cold packs

OPTIONAL ACCESSORIES
3448130 Towelling holder for 3 packs 3448208

Packheater, Enno Moist and Hot/Coldpacks

All Packheaters come with a detachable insert rack in which several packs can be suspended alongside each other and heated. A sensitive thermostat helps keep the water temperature constant.

PACKHEATER SS
The Packheater SS is supplied as standard with 8 Enno Moist packs of 25x30 cm.

Tank capacity:	31,64 l
Temperature range:	71-74°C
Mains voltage:	220-240 V
Mains frequency:	50/60 Hz
Power consumption:	1000 W
Dimensions (hxdhx):	49,53x44,45x39,37 cm
Weight:	22,39 kg

PACKHEATER SS-2
The Packheater SS-2 is supplied as standard with 8 Enno Moist packs of 25x30 cm. Easily moved on the 7½ cm rubber wheels

Tank capacity:	49,32 l
Temperature range:	71-74°C
Mains voltage:	220-240 V
Mains frequency:	50/60 Hz
Power consumption:	1000 W
Dimensions (hxlxw):	85,09x52,07x39,37 cm
Weight:	29,85 kg

PACKHEATER E-1
The Packheater E-1 is supplied as standard with 4 Enno Moist packs of 25x30 cm.

Tank capacity:	15,44 l
Temperature range:	71-74°C
Mains voltage:	220-240 V
Mains frequency:	50/60 Hz
Power consumption:	1000 W
Dimensions (hxdxw):	40,64x33,02x22,89 cm
Weight:	7,09 kg

PACKHEATER M-2
The Packheater M-2 is supplied as standard with 12 Enno Moist packs of 25x30 cm. Easily moved on the 7½ cm rubber wheels

Tank capacity:	68,81 l
Temperature range:	71-74°C
Mains voltage:	220-240 V
Mains frequency:	50/60 Hz
Power consumption:	1000 W
Dimensions (hxdxw):	85,09x67,31x39,37 cm
Weight:	37,32 kg

PACKHEATER E-2
The Packheater E-2 is supplied as standard with 6 Enno Moist packs of 3 different dimensions.

Tank capacity:	43,23 l
Temperature range:	71-74°C
Mains voltage:	220-240 V
Mains frequency:	50/60 Hz
Power consumption:	1000 W
Dimensions (hxdxw):	54,61x36,83x31,75 cm
Weight:	13,43 kg

PACKHEATER M-4
The Packheater M-4 is supplied as standard with 24 Enno Moist packs of 25x30 cm. Easily moved on the 7½ cm rubber wheels

Tank capacity:	**135,76 l**
Temperature range:	71-74°C
Mains voltage:	220-240 V
Mains frequency:	50/60 Hz
Power consumption:	1500 W
Dimensions (hxdxw):	85,09x88,9x50,16 cm
Weight:	59,712 kg

ORDERING DATA

3448260 Packheater SS-2 230V
3448261 Packheater M-2 230V
3448262 Packheater M-4 230V
3448263 Packheater SS 230V
3448264 Packheater E-2 230V
3448265 Packheater E-1 230V

STANDARD ACCESSORIES
(PRODUCT DEPENDENT, SEE DESCRIPTION)
3448167 Enno Moist 25x30 cm
3448169 Enno Moist oversized, 38x61 cm
3448168 Enno Moist neckmodel, 15x61 cm

OPTIONAL ACCESSORIES
3448166 Enno Moist 12x30 cm
3448281 Enno Moist 25x45 cm
3448283 Enno Moist 25x50 cm
3448282 Enno Moist 25x60 cm
3448176 Protective sleeve Enno Moist standard (25x30 cm)
3448175 Protective sleeve Enno Moist, oversized model (75x82 cm)
3448177 Protective sleeve Enno Moist neck model
3448272 Storage rack

3448272

CE 0197

Mobile quick-chiller to bring cold packs to the ideal temperature for use and to make sure they stay that way all day long. The specially designed chilling elements guarantee a rapid chilling. Easily moved on the 7½ cm rubber wheels.

CHILLING UNIT MODEL C-2
The C-2 is supplied as standard with 6 Colpacs of 28x36 cm.

Mains voltage:	220-240 V, 50/60 Hz
Current:	2 A
Work:	0.14914 kWh or 1/5 hp
Type of refrigerant:	R-134A
Test pressures:	high 1.62 MPa (235 psi); low 1.03 MPa (150 psi)
Normal operating temperature:	-12°C to -6°C (+10°F to +21°F)

CHILLING UNIT MODEL C-5
The C-5 is supplied as standard with 6 Colpacs of 28x36 cm and 6 Colpacs of 16x28 cm.

Mains voltage:	220-240 V, 50/60 Hz
Current:	2 A
Work:	0.14914 kWh or 1/5 hp
Type of refrigerant:	R-134A
Amount of refrigerant:	0.325 L (11 oz.)
Test pressures:	high 1.62 MPa (235 psi); low 1.03 MPa (150 psi)
Normal operating temperature:	-12°C to -6°C (+10°F to +21°F)

CHILLING UNIT MODEL C-6
The C-6 is supplied as standard with 12 Colpacs of 28x36 cm.

Mains voltage:	220-240 V, 50/60 Hz
Current:	2 A
Work:	0.14914 kWh or 1/5 hp
Type of refrigerant:	R-134A
Amount of refrigerant:	0.325 l (11 oz.)
Test pressures:	high 1.62 MPa (235 psi); low 1.03 MPa (150 psi)
Normal operating temperature:	-12°C to -6°C (+10°F to +21°F)

Colpac
Universal flexible cold pack in blue vinyl.

Stadtholder Moorpacking
Synthetic pack filled with ´moor´.

- Heat is given off extremely slowly
- Can be heated in a microwave

ORDERING DATA

CHILLING UNITS
3448273 Chilling unit model C-2 230V
3448274 Chilling unit model C-5 230V
3448275 Chilling unit model C-6 230V

MOORPACKING
3448310 Stadtholder Moorpacking 18x28 cm
3448311 Stadtholder Moorpacking 13x28 cm
3448312 Stadtholder Moorpacking 22x40 cm
3448313 Stadtholder Moorpacking 30x40 cm
3448314 Stadtholder Moorpacking neck-/schoulder model

MOORPACKING
3448290 Colpac 14x17 cm
3448288 Colpac 16x28 cm
3448284 Colpac 28x36 cm
3448285 Colpac 28x53 cm
3448287 Colpac 8x28 cm
3448286 Colpac neck model 58 cm
3448289 Colpac for the eyes

CE 0197

Infrared Radiators

For many years, Infrared Radiators have been a well-known accessory in the field of thermotherapy.
Infra-red thermotherapy is often used for the reduction of pain as well as for general healing of wounds. The skin absorbs the heat and passes it through to the blood stream in a natural way.

Some other fields of application for the Enraf-Nonius IR Radiator are:
- pre-treatments in massage practices;
- face and beauty treatments;
- cosmetic applications.

Positioning is easy because of the specially developed fast fixation device. The unit can be delivered with a stable mobile stand, with height adjustment and safety locks on the wheels.

ORDERING DATA
1979901 IR 6 Infra-red Radiator
1979902 IR 3 Infra-red Radiato

OPTIONAL ACCESSOIRIES
3444639 Mobile support for IR3 and IR6 radiators

TECHNICAL SPECIFICATIONS IR 6

Radiators:	6x150 W
Power consumption (220 VAC):	900 W (220 VAC)
Timer adjustment:	up to 30 minutes
Dimensions:	46x73x20 cm (WxLxD)
Weight:	approx. 14,6 kg

TECHNICAL SPECIFICATIONS IR 3

Radiators:	3x150 W
Power consumption (220 VAC):	450 W (220 VAC
Timer adjustment:	upto 30 minutes
Dimensions:	36x73x20 cm (WxLxD
Weight:	approx. 11,3 kg

3444639

Monark 970 Cycle

A sturdy mechanically braked system with an electronic readout for clear feedback and motivation.
The Enraf-Nonius Cycle 970 combines the best of mechanics and electronics at very attractive pricing.

- Easy to read display with information on: time, RPM, speed, distance and pulse
- Load range from 20 to 550 watt at 110 RPM, thus suitable for rehab and sports training
- Large transport wheels for easy mobility
- Easy workload adjustment by means of a knob
- Adjustable handlebar (can rotate 360°) and saddle, suitable for a wide variance in body sizes
- An enclosed flywheel and chain system for optimal safety

ORDERING DATA
3446514 Monark 970 Cycle

OPTIONAL ACCESSORIES
3496839 Chest-belt for heartbeat registration
3496840 Elastic strap for chest belt for heartbeat registration

3496839

3496840

CE 0197

Quadriceps Bench

The Quadriceps Bench is a functional muscle exerciser, allowing a large number of exercises to be performed within minimum floor surface. The bench enables exercises in a sitting position (for instance knee stretching) as well as exercises in a reclining position (for instance knee flexion and hip stretching).
The adjustment of the seat and back, provides a comfortable and stable position. Additional arm rests can be installed (also suitable for press-up exercises).

ORDERING DATA
3446188 Quadriceps Bench

STANDARD ACCESSORIES
1400740 Operating manual Quadriceps exercise bench

OPTIONAL ACCESSORIES
3446197 Additional swinging arm
3445023 Strap with back-to-back fastening, 120 cm

3446197

3445023

CE 0197

Other exercise materials

1

2

3

4

5

6

7-9

10

11

12

ORDERING DATA

EXERCISE MATERIALS

1	**3446396**	Exercise stairs, right angled version, 138x123x127 cm
2	**3446189**	Exercise stool, height 65 cm
3	**3446257**	Parallel bars, 4 meter
4	**3446325**	Shoulder wheel Type III
5	**3446261**	Set of 3 exercise stools
6	**3446437**	Shoulder wheel Type I
7	**3446375**	Wall bars with removable headsection
8	**3446450**	Knee support for wall bars 3446375
9	**3446483**	Wall bars, simple model
10	**3446311**	Correction mirror, metal frame, on wheels, 168x60 cm
11	**3446383**	Swedish bench, 200 cm
12	**3013018**	Balance board grey, dim. 150x60x17 cm

Small practice materials

Rep Band, the non-latex exercise band

The Rep Band exercise band is made of a non-slip, non-latex elastomer that provides just enough tack for a comfortable, sure grip. The Rep Band exercise band does not leave stains of powder and it has no odor. Innumerable possibilities for exercising come with a very comfortable price.

Eggsercizer, resistive hand exerciser

This nice looking Eggsercizer stimulates the training of the fingers, palm and wrist. The surface has a comfortable and soft feel, but gives also the proper resistance.

Rep Putty, non-toxic exercise putty

This smooth exercise putty is formulated in five progressive resistance levels for fingers, palm and wrist rehabilitation. The putty has a smooth and non-oily feeling. Not only enables the incorporation of an anti-microbial inhibitor Rep putty to resist the growth of destructive bacteria, it also promotes hygiene and odor reduction.

1-6

7-10

16

11-20

21-31

ORDERING DATA

1	**3446570**	Rep Putty extra/extra soft, light brown 80 gram
2	**3446571**	Rep Putty extra soft, peach 80 gram
3	**3446572**	Rep Putty soft, orange 80 gram
4	**3446573**	Rep Putty medium, green 80 gram
5	**3446574**	Rep Putty strong, blue 80 gram
6	**3446575**	Rep Putty extra strong, violet 80 gram
7	**3446576**	Eggsercizer extra soft orange
8	**3446577**	Eggsercizer soft green
9	**3446578**	Eggsercizer medium blue
10	**3446579**	Eggsercizer strong purple
11	**3446695**	Rep exercise tubing level 1 peach 30 m
12	**3446696**	Rep exercise tubing level 2 orange 30 m
13	**3446697**	Rep exercise tubing level 3 green 30 m
14	**3446698**	Rep exercise tubing level 4 blue 30 m
15	**3446699**	Rep exercise tubing level 5 purple 30 m
16	**3446793**	Rep exercise tubing level 1 peach 7,5 m
17	**3446794**	Rep exercise tubing level 2 orange 7,5 m
18	**3446795**	Rep exercise tubing level 3 green 7,5 m
19	**3446796**	Rep exercise tubing level 4 blue 7,5 m
20	**3446797**	Rep exercise tubing level 5 purple 7,5 m
21	**3446776**	Rep exercise band level 1 peach 5,5 m
22	**3446777**	Rep exercise band level 2 orange 5,5 m
23	**3446778**	Rep exercise band level 3 green 5,5 m
24	**3446779**	Rep exercise band level 4 blue 5,5 m
25	**3446780**	Rep exercise band level 5 purple 5,5 m
26	**3446781**	Rep exercise band level 1 peach 45 m
27	**3446782**	Rep exercise band level 2 orange 45 m
28	**3446783**	Rep exercise band level 3 green 45 m
29	**3446784**	Rep exercise band level 4 blue 45 m
30	**3446785**	Rep exercise band level 5 purple 45 m
31	**3446786**	Dispenser for 5 rolls

1-3

4-8

9

10-11

12-16

17

18-23

24-28

29

30-37

ORDERING DATA

1	**3433432**	Pump with lid for massage lotion
2	**3445289**	Enno-lin, container 5 ltr
3	**3445290**	Enno-lin massageoil, bottle 500 ml
4	**3445332**	Senator 3D massage unit
5	**3445359**	Foam rubber applicator
6	**3445383**	Burled foam applicator
7	**3445384**	Hyperaemia brush, synthetic
8	**3445385**	Hyperaemia brush, natural hair
9	**1469911**	Exercise top, Ø 50 cm, maximum 90 kg
10	**3446151**	Physioball, Ø 85 mm, red
11	**3446152**	Physioball, Ø 95 mm, blue
12	**3446233**	Dumb-bell, 1 kg, set of 2
13	**3446234**	Dumb-bell, 2 kg, set of 2
14	**3446235**	Dumb-bell, 3 kg, set of 2
15	**3446236**	Dumb-bell, 4 kg, set of 2
16	**3446237**	Dumb-bell, 5 kg, set of 2
17	**3446211**	Ball pump
18	**3447617**	Wristlet 3,5 kg
19	**3447618**	Wristlet 5,0 kg
20	**3447656**	Wristlet 0,5 kg
21	**3447657**	Wristlet 1,0 kg
22	**3447658**	Wristlet 2,0 kg
23	**3447659**	Wristlet 3,0 kg
24	**3446273**	Airex 'Corona' 185x100x1,5 cm, red
25	**3446397**	Airex 'Coronella' 185x60x1,5 cm, red
26	**3446362**	Airex 'Atlas' 200x125x1,5 cm, green
27	**3446174**	Airex 'Hercules' 200x100x2,5 cm, green
28	**3446463**	Hanging bracket for Airex mats, 150x37 cm
29	**1441900**	Wristroller, with adjustable resistance
30	**3446251**	Storage rack (without materials)
31	**3446215**	Wooden block, 10x6x4 cm
32	**3446216**	Wooden block, 20x10x5 cm
33	**3446245**	Club, original design
34	**3446332**	Exercise stick, wood, 100 cm
35	**3446204**	Medicine ball, leather, 1,5 kg
36	**3446205**	Medicine ball, leather, 2 kg
37	**3446206**	Medicine ball, leather, 3 kg

EN-MOTION

EN-Motion treadmill

The EN-Motion treadmill is a medical training device suitable for therapy for conditions such as COPD and obesity. The EN-Motion is a universal treadmill for medical exercise therapy. The EN-Motion can also be used as a preventive exercise machine. Regular movement helps prevent cardiovascular disease, diabetes and osteoporosis.

The EN-Motion is also suitable for weight-loss programmes, or to keep the weight steady. The EN-Motion is a formidable treadmill, characterised by outstanding Enraf-Nonius design and workmanship and advanced technology, which perfectly meet today's needs. The treadmill has unique adjustable ergonomic sidebars. The innovative control panel pivots round for easy viewing by the patient or the therapist. The EN-Motion is further unique in its Dual Slope Technology (DST), which allows the easy setting of positive and negative slopes.

Therapy options are increased considerably with the adjustable direction of movement. The machine comes with functional, adjustable exercise programmes and a variety of test protocols. The EN-Motion treadmill can be controlled with EN-Track software. Its special shock absorption means that even the most sensitive patients can exercise on the EN-Motion. The extremely low step allows any patient to use it. What distinguishes the EN-Motion further from other treadmills is that this exercise machine meets the strict guidelines of the Medical Devices Directives for medically sound therapy. The EN-Motion is a professional treadmill with a powerful, quiet motor and a robust, contemporary look. It is stable and extremely safe to use.

- Dual Slope Technology (DST)
- Pivoting Panel

Product availability expected as of mid 2009.

ORDERING DATA

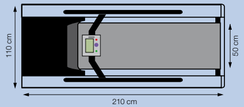
1665901 EN-Motion Standard 230V
1665911 EN-Motion Standard 115V

STANDARD ACCESSORIES

1665751 User manual EN-Motion
1665802 Hip belt with magnetic emergency stop

OPTIONAL ACCESSORIES

3496839 Chest-belt for heartbeat registration
1665800 Emergency stop
1665801 Ramp-up platform



3496839 **1665800** **1665801**

TECHNICAL SPECIFICATIONS

Supply voltage:	230 V ± 10%, 50/60 Hz
Speed:	max. 18 km/h (adjustable in steps of 0,1 km/h)
Speed in reverse mode:	max. 5 km/h
Inclination (pos. and neg.):	+15% (pos.) tot -10% (neg.) adjustable in steps of 0,5%
Belt area:	150x50 cm
Sidebar heights:	70-90 cm
Dimensions (lxw):	195x85,5 cm
Step-up height:	± 11 cm
Weight:	± 90 kg
Max. permissible client weight:	max. 235 kg
Display:	Color LCD

EN-MILL

Cardio-respiratory exercise equipment, treadmil

The Mill is extremely suitable for a wide range of rehab and training purposes, such as active rehabilitation, mobilization, cardio-respiratory rehabilitation and/or general training and fitness. There is a choice of two basic models: one fitted with the EN-Track interface and one without this interface (thus suitable for stand-alone use).

In their standard implementations, both models meet the following specifications:

- speeds adjustable from 0.5 to 18 km/h
- approved and authorised for medical use
- easy to operate and an extremely well laid out operating panel
- programmable operating unit
- possibility for heartbeat controlled training (with a Polar® transmitter and receiver included)
- emergency stop via emergency button (standard model)
- hip belt with safety switch (for automatic stop if the client cannot maintain the running speed of the belt)

The basic models can be extended or modified with the following options:

1. speed range extra fast or extra slow
2. various front and side supports
3. various types of height adjustments
4. an access platform
5. and an extra de luxe emergency stop

The Mill features:

- Straightforward operation
- Easily readable display
- Low mounting height
- Sprung running surface
- Powerful AC motor, 2.1 HP
- Programmable
- Heart rate control and monitoring with a Polar® chest band
- Modular construction

ORDERING DATA

3446692 EN-Mill Standard, basic model of the Mill as described
3446678 EN-Mill Track, basic model of the Mill as described and fitted with EN-Track interface
The Mill can be extended with one or more extras.
Consult your Enraf-Nonius representative for these extras.

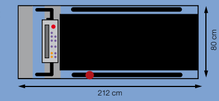
OPTIONAL ACCESSORIES

3496884 Emergency stop of luxury
3446683 Fixed negative gradient of -/- 10% (rear-side)
3446555 Coated sidebars with a fixed height of 85 cm
3446677 Extra PVC-coated sidebars with a fixed height of 85 cm
3446674 Extra PVC-coated sidebars, adjustable
3446685 U-shaped front-bar
3446686 Extra PVC-coating for the standard front-bar
3446533 Coated sidebars, adjustable
3446681 Electric height-adjustment from 0 to 25% (front-side)
3446556 Ramp-up platform 50 cm
3446687 Extra low velocity range for rehabilitation (0,1-12 km/h)
3446688 Extra high velocity range for sports-applications (0,5-20 km/h)

TECHNICAL SPECIFICATIONS

Supply voltage:	230 V ± 10%, 50/60 Hz
Driving force:	Frequency-controlled rotary-field electromotor
Motor capacity:	1500 W
Max power consumption:	10 A
Min./max. speed:	0.5-18 km/h
Belt area:	50x150 cm (eff.)
Max permissible client weight:	135 kg
Inclination:	0-25%
Dimensions (lxwxh):	212x80x138 cm
Weight:	145 kg

EN-Track compatible as of EN-Track version 6



349884 **3446683** **3446686** **3446685** **3446674** **3446677** **3446555**

3446556 **3446687** **3446688**

ELECTROTHERAPY

Equipment for pain management, muscle stimulation and/or diagnostics. Electrotherapy applications for fast pain relief without side effects. Muscles can be stimulated to improve the function of soft tissue. Electrotherapy can be used to measure differentiated tissue response to stimulation, to provide a diagnosis about tissue quality.

ULTRASOUND THERAPY

Equipment for therapy using high frequency sound waves. The high frequency vibrations can cause a mechanical and thermal effect in the tissue. Ultrasound therapy promotes the body's capacity for selfhealing and tissue repair.

COMBINATION THERAPY

Equipment for electrotherapy and ultrasound therapy. This type of therapy can be applied side-by-side and at the same time, providing a very efficient therapy. Pain reduction in combination with ultrasound therapy provides rapid post-traumatic treatment, resulting in tissue repair in the minimum of time.

MONOFREQUENCY TREATMENT HEAD (1 MHZ)

Ultrasound treatment head with a frequency of 1 MHz. This frequency has a good depth effect and can be universally used.

MULTIFREQUENCY TREATMENT HEAD (1+3 MHZ)

An ultrasound treatment head with the option of both 1 MHz and 3 MHz combines the universal application of 1 MHz ultrasound therapy with the more specific application of 3 MHz. Particularly for superficial tendon and tendon sheath disorders, the 3 MHz application provides a solution because its effectiveness is greatest in the superficial layers.

INTERFERENCE

Interference currents stimulate deep tissue without loading surface tissue. With multipole interference applications a high intensity is achieved on the basis of interference within the effective stimulation area. This enables precise localisation, particularly in deep tissue layers.

RUSSIAN STIMULATION

An intermittent alternating current with a load frequency of 2500 Hz. This type of current is ideal for muscle stimulation and muscle strengthening.

ASYMMETRICAL BIPHASAL PULSE CURRENT (TENS)

Asymmetrical biphasal pulse current is a form of TENS (transcutaneous electrical nerve stimulation), which is often used for pain relief. The biphasal character makes this type of current completely balanced and it therefore does not have a direct current. The variations of the asymmetrical component prevent undesired adaptation of the tissue.

SYMMETRICAL BIPHASAL PULSE CURRENT (TENS)

Symmetrical biphasal pulse current is a form of TENS (transcutaneous electrical nerve stimulation), which is often used for muscle stimulation. The biphasal character makes this type of current completely balanced and it therefore does not have a direct current. The phase duration in both pulse phases is kept the same (symmetrical) so that the supplied energy is doubled.

RECTANGULAR CURRENT

The classic rectangular current still has many applications today, but is best known as the current for the composition of the I/t curve, enabling objective pronouncements on the quality of the muscle tissue and the innervation. With the 2-5 variant (current type according to Träbert) an optimum segmental treatment can be given.

TRIANGULAR CURRENT

The classical triangular current, like the rectangular current, has many applications. A triangular current causes the accommodation of the nerve tissue to the stimulation to be resisted. The triangular current forms a valuable addition to the diagnostic possibilities using currents. An I/t curve, expanded with a triangular current, provides insight into the accommodating capacity of the nerve tissue.

MICRO CURRENT

Micro current uses extremely small flows and is therefore highly suitable for pain relief and for tissue repair. Micro currents can be compared to the natural currents that the body generates for tissue repair.

HIGH VOLTAGE

The fast introductory period and the short duration of the peak voltage make high voltage ideal for muscle stimulation and pain relief, whereby a good distinction can be made between the sensory and motor response and the perception of pain. High voltage has broad applicability, from pain relief and oedema treatment to muscle stimulation and movement re-education.

DIADYNAMIC CURRENTS

Diadynamic currents form a classic treatment among therapeutic currents. Since 1962 the different diadynamic currents (such as MF, DF, CD, LP and Lpid) have had an extensive area of application. Apart from the advantage of strong local heating, diadynamic currents are also extremely suitable for pain relief and for reducing swelling.

INTERMEDIATE FREQUENCY INTERRUPTED DIRECT CURRENT

The intermediate frequency interrupted direct current is a rectangular current with an interruption frequency of 8000 Hz. This type of direct current is, in contrast to continuous direct current, more comfortable for the patient and enables good pain relief.

CONTINUOUS (GALVANIC) DIRECT CURRENT

Continuous direct current is the father of all current types. In all its simplicity this type of current is effective for diagnostics and for iontoforesis.

BURST TENS

Burst TENS is a variant of conventional TENS. With this variant short trains of impulses with a high intensity are discharged, to counteract adaptation. This type is highly suitable for pain relief through stimulation of the body's own production of endorphins.

CONSTANT VOLTAGE / CONSTANT CURRENT

For stationary treatment constant current is an excellent solution; the fixed relationship between the current through the body (B), the voltage differential causing this (V) and the resistance (R) of all the conductors is nearly always constant. For dynamic applications the constant voltage is the appropriate form, because the variation of the resistance is compensated by the variation in current density (intensity).

BIPOLAR INTERFERENCE

Bipolar interference provides all the benefits of classical tetrapolar interference, but the localisation deep in the body is more straightforward and can therefore be adjusted more precisely.

CLASSIC INTERFERENCE

Classic tetrapolar interference enables a precise localisation of the treatment area. With the positioning of the electrodes and the variation of the load frequencies stimulation can be given exactly where it is needed, both on the surface and deeper in the body. Due to the four electrodes any stress on the skin is very low.

ISOPLANAR VECTOR

Isoplanar vector interference is the ideal form for treating deep-seated, large areas. Due to the isoplanar vector, the typical advantages of interference-a lower surface load and an intensive depth effect-are ideal for large treatment areas.

(AUTOMATIC) DIPOLE VECTOR

The Dipole vector (as a variant of interference current) can be set after applying the electrodes and is used for the exact localisation of the stimulus. With the automatic variant of the dipole vector, the current reaches a larger area of 360°. This means that accommodation occurs less quickly. With sufficiently high intensity, muscle contractions will be perceptible. This effect can be used therapeutically for the reduction of swellings and improving the circulation.